

Catalogue 2019



AICSYS
ADVANCED INDUSTRIAL COMPUTER SYSTEMS



The Company



AICSYS has been manufacturing Industrial Chassis and Specialized Single Board Computers for more than seventeen years and has been a major supplier of OEM/ODM IPC Products to many of the leading IPC companies in Europe, Asia, and North America. Private labeling and behind the scenes support, has been AICSYS' primary function. Recent changes in the global IPC Market has caused AICSYS to re-evaluate its' position. As a direct result, AICSYS has released a line of products which bear the AICSYS name and will focus primarily on Ruggedized Industrial Chassis and a highly focused line of Single Board Computers.

AICSYS has expanded its' manufacturing capabilities to include sites in Taiwan and Shen Zhen, China. The Chassis facilities have over 3000 square meters of manufacturing space and house (4) NCT Machines, (9) CNC Machines, and several other automated pieces of

fabrication machinery. With the addition of these facilities, AICSYS has positioned itself as a major player in the IPC Market through cost effective and superior quality products. AICSYS-USA is responsible solely for design & development, while AICSYS-Taipei facilitates all Marketing, Sales Distribution, and Customer Service for the Asian & European Markets, including OEM/ODM products for local vendors.

No matter how many features an SBC may have, without a well-designed Chassis your solution is not impressive at all. AICSYS capitalizes on previous Chassis development experience for the next generation of products, enhancing reliability, durability and safety features. To provide our customers complete solutions, AICSYS has integrated several "Ready-to-Use" products such as, the CYCLOPS Series - 1U LCD/Keyboard Drawers and WEBSTER – All-in-One Servers.

While Industrial Chassis and Systems remain the foundation of the AICSYS product line, OEM/ODM projects allow our R & D Team to shine. Simple modifications such as minor BIOS modifications, changing the color of a chassis, and adding a company logo are just a few services AICSYS offers its customers. AICSYS also provides a complete design service to customers as well. Our team of Design Engineers will manage your project from conception to post production support. At AICSYS we have the unique ability to produce both large and small quantity OEM products.

Producing the highest quality products possible is our number one goal at AICSYS. To compromise the integrity of a product in order to beat the competition to market is something we at AICSYS do not believe in. Rushing a product through a production cycle can result in catastrophic failures, our approach to design, development & production is an extremely cautious one. Each product is rigidly stress tested as well as field tested prior to release. Utilizing state of the art technology to design and manufacture our products ensures our customers receive the highest quality products available. Experience today the advantages of having over seventeen years of manufacturing, engineering, and customer support that AICSYS can bring to your next project.



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PICMG 1.3 Single Board Computer



**Industrial Full-size PICMG 1.3
SBC supports 8th Generation
Intel® Core™ Processors with
Intel® C246/Q370/H310 PCH,
SATA3, M.2 Key, USB 3.1, Dual
LAN and DVI-I**



Features

- Supports Intel 8th Gen. Core Processors
- Dual Gigabit Ethernet supported
- (6) SATA-600 with RAID 0/1/5/10 (C246/Q370)
- Watchdog & Hardware Monitor function
- Supports Intel® AMT and vPro (C246/Q370)

CPU

- LGA1151 for 8th Generation Intel® Core™ Processors

Chipset

- Intel® C246/Q370/H310

System Memory

- (2) 288-pin DDR4 2400/2666 un-buffered DIMM max. up to 32GB (C246 supports ECC)

Display Interface

- Intel® HD Graphics
- (1) DVI-I

Ethernet

- 1st port with Intel® i219LM with AMT 11 support
- 2nd port with Intel® i211AT
- support WOL, RPL/PXE Boot ROM

Audio

- Optional Audio Codec with external module

TPM

- Optional TPM 2.0 module

I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- C246/Q370: (2) USB 3.1 Gen.2 & (4) USB 3.1 Gen.1, (4) USB 2.0 Ports
- H310: (4) USB3.1 Gen. 2 & (4) USB 2.0 Ports
- C246/Q370: (6) SATA-600 support RAID 0/1/5/10
- H310: (4) SATA-600
- M.2 Key M 2280, PCIe x4 signal
- (1) PS/2 keyboard & (1) PS/2 mouse & (1) LPT

Expansion Interface

- Edge Connector A: (1) PCIe x16, Gen. 3 Edge Connector B: (1) PCIe x4 or (4) PCIe x1, Gen. 2 (4) 32 bit PCI bus masters

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 338mm x 126mm

Ordering Information

SBC-6511 2GND-Q	LGA1151 Socket 8 th Generation Intel® Core™ processors, Intel® Q370 PCH, USB 3.1, SATA 3.0, Dual LAN, DVI-I
SBC-6510 2GND-C	Intel® C246 PCH

Industrial Full-size PICMG 1.3 SBC supports 6th Generation Intel® Core™ Processors with Intel® Q170 PCH, SATA3, USB 3.0, LAN and DVI-I



Features

- Supports Intel 6th Gen. Core i3/i5/i7 Processors
- Dual Gigabit Ethernet supported
- (6) SATA-600 with RAID 0/1/5/10
- Watchdog & Hardware Monitor function
- DVI/VGA outputs

CPU

- LGA1151 for 6th Generation Intel® Core™ Processors, TDP up to 65W vPro Supported

Chipset

- Intel® Q170

System Memory

- (2) 240-pin DDR4/-2133 un-buffered DIMM max. up to 16GB

Display Interface

- Intel® HD Graphics
- (1) DVI-I

Ethernet

- 1st ports as 10/100/1000Mbps support WOL,RPL/PXE Boot ROM with Intel® i219LM with AMT 9.0 support
- 2nd port as 10/100/1000Mbps support WOL,RPL/PXE Boot ROM with Intel® i211AT

Audio

- Built-in HD Audio Codec

TPM

- Infineon TPM 1.2 SLB9635 (optional)

I/O Interface

- (5) RS232 & (1) RS232/422/485 serial ports
- (2) USB 3.0 and (10) USB 2.0 ports
- (6) SATA-600 support RAID 0/1/5/10
- (1) PS/2 keyboard & (1) PS/2 mouse

Expansion Interface

- Edge Connector A: 1 x PCIe x16, Gen. 3 Edge Connector B: 1 x PCIe x4 or 4 x PCIe x1, Gen. 2 4 x 32 bit PCI bus masters

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 338mm x 126mm

Ordering Information

SBC-6510A2GI	LGA1151 Socket 6th Generation Intel® Core™ i7/i5/ i3 processors, Intel® Q170 PCH, USB 3.0, SATA 3.0, Dual LAN, DVI-I
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**PICMG 1.3 SBC supports Intel
3rd Gen Core i7/i5/i3
Processors, SATA RAID, Dual
Gigabit LAN, DVI/VGA Dual
Display**



Features

- Supports Intel Core i7/i5/i3 Processors
- Dual Gigabit Ethernet supported
- (6) SATA ports supports RAID 0, 1, 5, 10
- Watchdog & Hardware Monitor function

CPU

- LGA 1155 socket for:
 - Intel® Core™ i7-3770 (3.4GHz, 77W)
 - Intel® Core™ i5-3550S (3GHz, 65W)
 - Intel® Core™ i3-3220 (3.3GHz, 55W)

Chipset

- Intel Q77

System Memory

- (2) DIMM supports DDR3 1333/1600 up to 16GB

Display Interface

- Intel HD Graphics
- Up to 352MB frame buffer dedicated memory
- (1) VGA with DB9 and (1) DVI-D with header

Audio

- Intel HD Audio with Realtek ALC662 codec

TPM

- (Option) Infineon SLB9635 for trusted platform

Ethernet

- 1st ports as 10/100/1000Mbps supports WOL, RPL/PXE Boot ROM with Intel® 82574L
- 2nd port as 10/100/1000Mbps support WOL, RPL/PXE Boot ROM with Intel® 82579LM

I/O Interface

- (1) FDD
- (1) LPT with SPP/EPP/ECP supported
- (2) SATA3 6Gbps & (4) SATA2 3Gbps ports supports RAID 0, 1, 5, 10
- (1) PS/2 keyboard/mouse port
- (6) USB 2.0 ports
- (4) USB 3.0 ports
- (1) RS232 & (1) RS232/422/485 serial port

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95% relative humidity, non-condensing

Dimension

- 338 x 122mm

Ordering Information

SBC-6508A2GND PICMG 1.3 Full-size SBC with LGA1155, SATA RAID, Dual Gigabit LAN, USB3.0

**PICMG 1.3 SBC supports Intel
2nd Gen Core i7/i5/i3
Processors, SATA RAID, Dual
Gigabit LAN**



Features

- Supports Intel Core i7/i5/i3 Processors
- Dual Gigabit Ethernet supported
- (6) SATA ports supports RAID 0, 1, 5, 10
- Watchdog & Hardware Monitor function

CPU

- LGA 1155 socket for:
 - Intel® Core™ i7-2600 (3.4GHz, 95W)
 - Intel® Core™ i5-2400 (3.1GHz, 95W)
 - Intel® Core™ i3-2120 (3.3GHz, 65W)

Chipset

- Intel Q67

System Memory

- (2) DIMM supports DDR3 1066/1333 up to 16GB

Display Interface

- Intel HD Graphics
- Intel DVMT 5.0 technology for video memory, share with system memory

Audio

- Intel HD Audio with Realtek ALC662 codec

TPM

- Infineon SLB9635 for trusted platform

Ethernet

- 1st port as 10/100/1000Mbps supports iAMT, Wake-on-LAN, RPL/PXE Boot ROM with Intel 82579LM
- 2nd port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel 82574L

I/O Interface

- (1) FDD, (1) LPT
- (2) SATA 600Mbps & (4) SATA 300Mbps ports supports RAID 0, 1, 5, 10
- (1) PS/2 keyboard/mouse port
- (14) USB 2.0 ports
- (1) RS232 & (1) RS232/422/485 serial port

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95% relative humidity, non-condensing

Dimension

- 338 x 122mm

Ordering Information

SBC-6505A2GN	PICMG 1.3 Full-size SBC with LGA1155, SATA RAID, Dual Gigabit LAN, USB2.0
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PICMG 1.3 SBC supports Intel Core 2 Quad Processors, integrated 2D/3D graphics, DDR3 Memory, (6) SATA RAID, Dual Gigabit LAN



Features

- Supports Intel Core 2 Quad Processors
- Dual Gigabit Ethernet supported
- (6) SATA ports with RAID 0, 1, 5, 10
- Watchdog & Hardware Monitor function

CPU

- Intel Core 2 Quad/ Core 2 Duo /Celeron
- 800/1066/1333MHz Front Side Bus

Chipset

- Intel Q45 & ICH10DO

System Memory

- (2) DIMM supports DDR3 800/1066 up to 4GB

Display Interface

- Intel Graphics Media Accelerator 4500 engine
- Up to 1024MB frame buffer size shared with system memory

Audio

- Integrated High Definition audio

Ethernet

- Single or Dual Intel Gigabit Ethernet controllers with 10/100/1000Mbps

I/O Interface

- (1) Parallel Port, 1 x FDD
- (6) SATA ports support RAID 0, 1, 5, 10
- (1) PS/2 keyboard/mouse port
- (8) USB 2.0 ports
- (1) 8-bit GPIO & SMBus interface
- (5) RS232 & (1) RS232/422/485 serial port
- (1) IrDA port

Expansion

- (1) PCIe x16, (1) PCIe x4, (4) PCI and (4) USB2.0 for PICMG 1.3 backplane

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95% relative humidity, non-condensing

Dimension

- 338 x 122mm

Ordering Information

SBC-6224AGN	PICMG 1.3 Full-size SBC with LGA775, DDR3, SATA, VGA, Gigabit LAN, USB2.0
SBC-6224A2GN	PICMG 1.3 Full-size SBC with LGA775, DDR3, SATA, VGA, Dual Gigabit LAN, USB2.0

Embedded Single Board Computer



The Global Choice for Premium Industrial Computer Products

**Industrial 5.25" Embedded SBC
with Intel® Core™ i Mobile CPU,
Intel® QM77 Express, DDR3 up to
16GB, (6) Giga LAN, (4) USB 3.0 ,
(6) COM, (6) SATA, Mini-PCIe
socket**



Features

- Intel® Core™ i7/i5/i3 Mobile processor 3rd Gen.
- (6) Gigabit Ethernet supported
- (4) SATA2 & (2) SATA3
- Watchdog & Hardware Monitor function
- DVI/VGA/LVDS multiple display outputs

CPU

- Intel® Core™ i7/i5/i3 Mobile processor 3rd Gen.
- Package Type: rPGA988B

Chipset

- Mobile Intel® QM77 Express chipset

System Memory

- (2) DDR3 1066/1333/1600 SO-DIMM up to 16 GB

Display Interface

- Integrated Intel® HD Graphics 4000
- (1) DVI, (1) VGA & (1) LVDS 24 bit dual channel

Ethernet

- (5) Intel® 82574L Gigabit Ethernet Controllers
- (1) Intel® 82579LM Gigabit Ethernet Controller(Support iAMT8.0)
- Supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec with Realtek ALC888

I/O Interface

- (1) RS-232/422/485 & (4) RS-232 serial ports
- (4) USB 2.0 and (2) USB 3.0 ports
- (1) 8-bit digital I/O interface
- (4) SATA2 & (2) SATA3
- (1) IrDA & (1) SMBus

Onboard Expansion

- (2) Mini-PCIe sockets
- (1) SIM socket

Power Requirement

- ATX 20-pin & 4-pin connectors
- Standard ATX Power or DC 9-24V input

Environment Spec

- Operating within 0 ~ 60°C
- Storage within -20 ~ 85°C

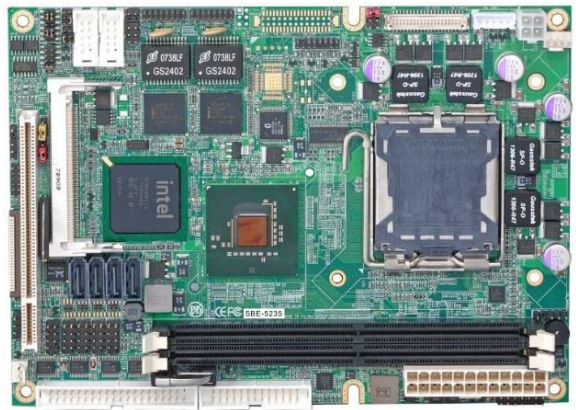
Dimension

- 203 mm x 146 mm (L x W)

Ordering Information

SBE-5237A6GNLD	PGA988B+ QM77 Onboard VGA, LVDS, DVI, LAN, USB2.0, USB3.0, HD Audio, SATAII ,SATAIII, SMBUS, LPC,
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5.25" Core 2 Quad SBC with Intel Q35 Express chipset, dual Gigabit LAN, (8) USB, (6) COM, (4) SATAII with RAID, HD Audio, PCI & Mini PCI socket, dual DVI/ LVDS interface



Features

- High Performance Intel Core 2 Quad processor
- Integrated High Performance 3D Graphics
- Dual Gigabit LAN
- Onboard SATA RAID 0, 1, 5 & 10

CPU

- Intel Core 2 Duo/Quad processors
- 800/1066/1333MHz Front Side Bus

Chipset

- Intel Q35 Express chipset & ICH9DO

System Memory

- 2 x 240-pin DDR2 up to 4GB (Under 32-bit OS will only support up to 3.2GB.)

Display Interface

- Integrated Intel GMA X3100 2D/3D Graphics
- Supports VGA, dual DVI or LVDS output

Audio

- Integrated High Definition audio

Ethernet

- Dual Intel 82573L Gigabit Ethernet controllers with 10/100/1000Mbps

I/O Interface

- 1 x IrDA Ports, 1 x slim FDD, 1 x LPT
- 4 x SATAII Ports support RAID 0, 1, 5, 10
- 1 x PS/2 keyboard/mouse port
- 8 x USB 2.0 ports
- 5 x RS232 & 1 x RS232/422/485 serial ports
- 1 x 8-bit GPIO port, 2 x RJ45 ports

Onboard Expansion

- 1 x PCI slot
- 1 x mini PCI socket

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95% relative humidity, non-condensing

Dimension

- 203mm x 146mm (7.99" x 5.75")

Ordering Information

SBE-5235A2GD	Onboard VGA, 2 x Intel Giga LAN, 8 x USB 2.0, PCI & Mini PCI, FDD, HD Audio, 4 x SATA, 6 x COM, 1 x DVI
SBE-5235A2G2D	Same as above and 2 x DVI
SBE-5235A2GL	No DVI, 1 x LVDS
DC- ICS2	Mini-PCI card support 1 x 44-pin IDE, 2 x SATA, 1 x CF socket

**Industrial 5.25" Embedded
SBC with Intel® Celeron®
Processor J1900,
VGA/LVDS/eDP, USB 3.0, PCI
Express Mini Card, PCI, and
HD Audio**



Features

- Intel® Celeron® processor J1900
- Dual Gigabit Ethernet supported
- (1) SATA3 & (1) M.2 Socket
- Watchdog & Hardware Monitor function
- VGA/LVDS/eDP multiple outputs

CPU

- Intel® Celeron® processor J1900 @2.0GHz quad core SoC

System Memory

- Onboard SAMSUNG 4G/1333MHz DDR3L Memory, optional up to 8GB

Display Interface

- Intel® HD Graphics
- (1) LVDS & (1) VGA & (1)eDP

Ethernet

- (2) Intel i211AT Gigabit Ethernet Controllers

Audio

- HD Audio with Realtek ALC662

Storage

- (1) SATA3 with 6.0Gb/s
- (1) M.2 Key 2242/2260/2280

I/O Interface

- (2) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.0 and (6) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (1) SIM slot, (1) SMBus

Onboard Expansion

- (1) Full-size PCI Express mini card

Power Requirement

- DC 9~28V input

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

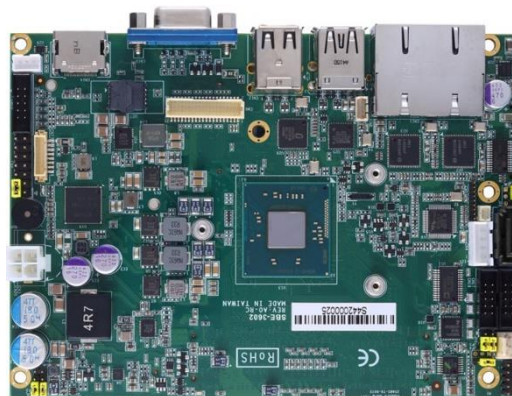
Dimension

- 120mm x 200mm

Ordering Information

SBE-5J01A2GVL	Intel® Celeron® J1900 SBC, LVDS/ VGA/DP, Dual GbE LAN, SATA3, USB 3.0, PCI, PCI express mini card and HD
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Industrial 3.5" Embedded SBC with onboard Intel® Atom™ Processor E3845, LVDS/ VGA/ HDMI, Dual LANs, Audio



Features

- onboard Intel® Atom™ processor E3845
- Dual Gigabit Ethernet supported
- (1) SATA-300
- Watchdog & Hardware Monitor function
- HDMI/VGA/LVDS multiple display outputs

CPU

- Onboard Intel® Atom™ processor E3845 @1.91GHz

Chipset

- SoC Integrated

System Memory

- (2) 204-pin SO-DIMM DDR3L-1066/1333 up to 8 GB

Display Interface

- Integrated Intel® HD Graphics
- (1) HDMI, (1) VGA
- (1) LVDS 24 bit dual channel

Ethernet

- (2) 10/100/1000Mbps with Intel® i211AT
- Supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec with Realtek ALC662

I/O Interface

- (1) RS-232/422/485 with +5V/+12V powered
- (1) RS-232
- (4) USB 2.0 and (1) USB 3.0 ports
- (1) 8-bit digital I/O interface
- (1) SATA-300

Onboard Expansion

- (1) Full-Size PCI Express Mini Card
- (1) Full-Size PCI Express Mini Card (USB only)

Power Requirement

- 4-pin connector
- +10V~24V DC-in
- AT Auto Power On function supported

Environment Spec

- -20°C ~ +70°C (-4°F ~ 158°F) operation
- Operation humidity under 10% ~ 95%

Dimension

- 146 x 104 x 1.6 mm

Ordering Information

SBE-3503A2GNL	3.5" Embedded SBC with Intel® Atom™ processor E3845 1.91GHz and VGA/LVDS/HDMI, 2 GbE
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AMD® Dual Core 3.5" Embedded SBC with AMD® T40N APU, VGA/LVDS/HDMI, Dual LAN and PCI Express Mini Card



Features

- AMD® T40N APU @ 1.0GHz (fanless)
- SO-DIMM supports DDR3 1066 max. up to 8GB
- AMD® A50M Controller Hub
- Integrated AMD® Radeon™ HD 6290 Graphics
- Dual Gigabit LAN interface
- 5.1 Channels High Definition Audio

CPU

- AMD® T40N, 1.0GHz, 2x 512KB L2, 9W TDP, dual-core

Chipset

- AMD® A50M Controller Hub

System Memory

- (1) 204-pin SO-DIMM supports DDR3 1066 up to 8GB

Display Interface

- Integrated AMD® Radeon™ HD 6290 Graphics
- Supports AMD® Turbo Core 2.0 technology
- VGA/HDMI/24-bit Dual Channel LVDS outputs

Audio

- Realtek® ALC886 5.1-channel HD Audio

Ethernet

- Dual Realtek® RTL8111DL Gigabit Ethernet Controllers

I/O Interface

- (2) RS-232/422/485 serial ports
- (4) USB 2.0 ports
- (1) CompactFlash Type II socket (solder side)
- (1) Serial ATA with 300MBps transfer rate
- 8-bit GPIO interface

Onboard Expansion

- (1) PCI Express Mini Card socket (solder side)
- (1) daughterboard expansion interface for (2) PCIe x1, (4) USB 2.0 and (1) LPC

Power Requirement

- 12V DC-in jack

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95% relative humidity, non-condensing

Dimension

- 146 x 102mm

Ordering Information

SBE-3601A2GNL	3.5" SBC with AMD® T40N APU with VGA/LVDS/HDMI, Dual Gigabit Ethernet, Audio, (2) COM and PCI Express Mini Card
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Industrial 3.5" Embedded SBC with Rock chip ARM Cortex A17 RK3288W, HDMI/LVDS/eDP, USB 2.0, Bluetooth and WIFI



Features

- Rock chip ARM Cortex A17 RK3288W
- One Gigabit Ethernet and WIFI supported
- Watchdog & Hardware Monitor function
- HDMI/LVDS/eDP multiple outputs
- Supports Android 5.1 & Linux 4.4

CPU

- Rock chip® ARM Cortex A17 RK3288W Quad-core 1.8GHz SoC Processor

System Memory

- Onboard 1GB DDR3L 1333MHz, optional up to 4GB

Display Interface

- Mali-T764 GPU, support AFBC
- (1) HDMI up to 3840 x 2160 @60Hz
- (1) 24-bit dual channel LVDS up to 1920 x 1200 @60Hz
- (1) eDP up to 3840 x 2160 @30Hz

Ethernet

- (1) Realtek RTL8211E-VB Gigabit Controller
- (1) RTL8723BS WIFI 802.11 b/g/n (2.4G)
- (1) Bluetooth 4.0

Storage

- Onboard 8GB Flash ROM
- (1) TF card (Micro SD) socket up to 64GB

I/O Interface

- (4) RS232 serial ports
- (4) USB 2.0 and (1) USB OTG ports
- (1) 8-bit digital I/O interface
- (1) SIM slot

Onboard Expansion

- (1) Full-size PCI Express mini card

Power Requirement

- DC 12V input

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

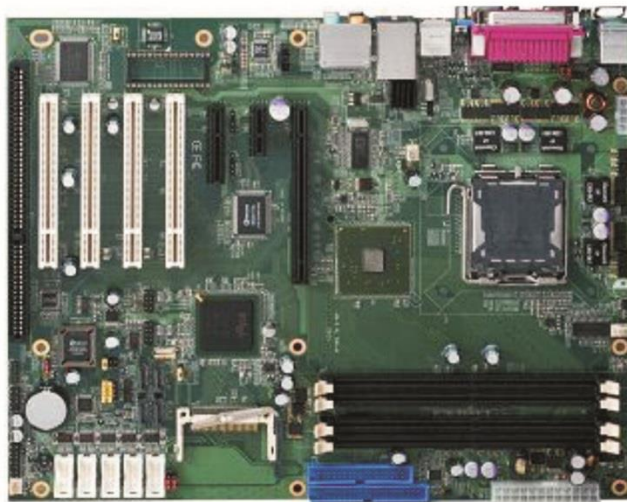
Dimension

- 148mm x 102mm (5.83" x 4.01")

Ordering Information

SBE-3J01AGHL-18	Rock chip ARM Cortex A17 RK3288W with 1GB DDR3L 1333MHz, 8GB Flash ROM, HDMI/LVDS/eDP, GBE LAN & WIFI & BT4.0
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Industrial Motherboard Computer



**ATX Industrial Motherboard
supports 6th Generation
Intel® Core™ i7/i5/i3
Processor, Intel® Q170, DDR4,
USB 3.0, SATA 3.0, Dual LANs,
VGA/DP/HDMI and mSATA**



Features

- Supports Intel 6th Gen. Core i3/i5/i7 Processors
- Dual Gigabit Ethernet supported
- (5) SATA-600 with RAID 0, 1, 5, 10
- Watchdog & Hardware Monitor function
- HDMI/Display Port/VGA multiple outputs

CPU

- LGA1151 socket supports 6th generation Intel® Core™ i7/i5/i3, Pentium® & Celeron®

Chipset

- Intel® Q170 PCH

System Memory

- (4) 288-pin DIMM DDR4-2133 up to 64 GB

Display Interface

- Intel® HD Graphics 530/510
- (1) HDMI, (1)VGA and (1) DisplayPort

Ethernet

- LAN1 with 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM, iAMT with Intel® i219LM
- LAN2 with 10/100/1000 Mbps supports Wake-on-LAN, PXE Boot ROM with Intel® i210

Audio

- Built-in HD Audio Codec with Realtek ALC662

I/O Interface

- (4) RS232 & (2) RS232/422/485 serial ports
- (4) USB 3.0 and (8) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (5) SATA-600 support RAID 0/1/5/10
- (1) mSATA socket
- (1) SMBus

Onboard Expansion

- (1) PCIe x16
- (2) PCIe x4
- (4) PCI slots
- (1) PCIe Mini Card
- (1) SIM socket

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 305mm x 244mm

Ordering Information

MBC-6513A2GPR	LGA1151 Socket 6th Generation Intel® Core™ i7/ i5/ i3 processors, Intel® Q170 PCH, USB 3.0, SATA 3.0,
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**Industrial ATX Motherboard
supports LGA1150 Intel®
Core™ i7/ i5/ i3 Intel® H81
PCH, USB 3.0, SATA 3.0, Dual
LAN, VGA/DVI and (2) ISA
slots**



Features

- Supports Intel 4th Gen. Core i3/i5/i7 Processors
- Dual Gigabit Ethernet supported
- (2) SATA 3.0 & (2) SATA 2.0
- Watchdog & Hardware Monitor function
- VGA and DVI-D for dual outputs

CPU

- LGA1150 socket 4th generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor

Chipset

- Intel® H81 PCH

System Memory

- (2) 240-pin DIMM dual channel DDR3 1600, max. up 16 GB

Display Interface

- Intel® HD Graphics
- (1) VGA and (1) DVI-D outputs
- Supports up to 1920 x 1200 @60Hz Resolution

Ethernet

- (2) Gigabit LAN with Intel® 82574 and i217LM
- Supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec with Realtek ALC886

I/O Interface

- (8) RS232 & (2) RS232/422/485 serial ports
- (2) USB 3.0 and (4) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (2) SATA 3.0 & (2) SATA 2.0
- (1) Parallel Port

Onboard Expansion

- (1) PCIe x16 Gen3
- (1) PCIe x4 Gen2 (support x1)
- (4) PCI slots (PCI 2.3) with one shard with ISA
- (2) ISA slots

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 305mm x 244mm

Ordering Information

MBC-6605A2GD	LGA1150 Socket 4th Generation Intel® Core™ i7/ i5/ i3 processors, Intel® H81 PCH, USB 3.0, SATA 3.0, Dual
---------------------	--

**Industrial ATX Motherboard
supports LGA1150 Intel®
Core™ i7/ i5/ i3 Intel® Q87
PCH, USB 3.0, SATA 3.0, Dual
LAN, DisplayPort/VGA/HDMI
and PCIe Mini Card**



Features

- LGA1150 socket supports Intel® Core™ i7/ i5/ i3 processors
- (4) DDR3 1333/1600 MHz up to 32GB
- DisplayPort/VGA/HDMI multi-outputs
- (4) USB 3.0 Ports
- (5) SATA3 with RAID

CPU

- LGA1150 socket supports Intel® Core™ i7/ i5/ i3 processors

Chipset

- Intel® Q87 PCH

System Memory

- (4) 240-pin DDR3 1333/1600 DIMM up to 32GB

Display Interface

- Intel® HD 4600/2500 Graphics
- (1) HDMI, (1) VGA and (1) DisplayPort

Audio

- Built-in HD Audio Codec

Ethernet

- 1st Gigabit LAN supports Wake-on-LAN, PXE Boot ROM, iAMT with Intel® i210AT
- 2nd Gigabit LAN supports Wake-on-LAN, PXE Boot ROM with Intel® i217LM

TPM

- TPM header support optional controller

I/O Interface

- (4) RS232 & (2) RS232/422/485 serial ports
- (4) USB 3.0 and (10) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (5) SATA-600 support RAID 0/1/5/10
- (1) mSATA socket

Onboard Expansion

- (1) PCIe x16 Gen3 slot
- (1) PCIe x4 Gen2 slot
- (1) PCIe x1 Gen2 slot
- (4) PCI slots

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

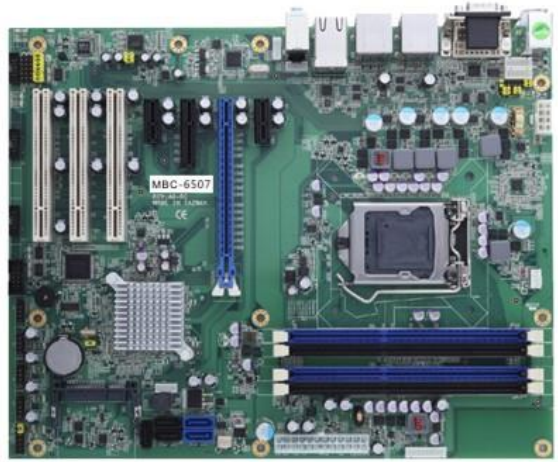
Dimension

- 305mm x 244mm x 1.6mm

Ordering Information

MBC-6510A2GPR	LGA1150 Socket 4th Generation Intel® Core™ i7/ i5/ i3 processors, Intel® Q87 PCH, USB 3.0, SATA 3.0, Dual LAN, DP/ VGA/ HDMI and mSATA
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**LGA1155 Socket Intel®
Core™ i7/i5/i3/Pentium® ATX
Industrial Motherboard with
Intel® Q67 Chipset**



Features

- Supports LGA1155 Intel Core i processors
- (4) DDR3 1066/1333 DIMM up to 16GB
- SATA RAID 0, 1, 10 and 5
- Intel® iAMT & iTPM supported

CPU

- LGA1155 socket for Intel® Core™ i7/i5/i3 processor with 1066/1333 MHz MT/s

Chipset

- Intel® Q67 PCH

System Memory

- (4) 240-pin DDR3 1066/1333 DIMM max. up to 32GB

Display Interface

- Intel® Core i processor integrated graphic engine; onboard (2) display port and (1) DVI-I connectors

Audio

- HD Codec audio

Ethernet

- 1st port as 10/100/1000 Mbps supports Wake-on-LAN with Intel 82579LM
- 2nd port as 10/100/1000 Mbps supports iAMT, Wake-on-LAN with Intel 82583V

I/O Interface

- (1) CFast™ SSD socket
- (3) RS232 & (1) RS232/422/485 serial ports
- (1) PS/2 keyboard & mouse port
- (12) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (2) SATA3 & (3) SATA2 with RAID 0, 1, 5, 10

TPM

- Infineon SLB9635 for trusted platform

Onboard Expansion

- (1) PCIe x16, (1) PCIe x4, (2) PCIe x1
- (3) PCI

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 305mm x 244mm (12" x 9.6")

Ordering Information

MBC-6507A2GDR	LGA1155 socket ATX industrial M/B with (2) Display port & (1) DVI-I, (2) Gbit LAN, audio, iAMT, iTPM
----------------------	--

**Micro-ATX Motherboard
Supports 4th Intel® Core™ i7
/ i5 / i3 Processors, Intel®
Q87 chipset, Onboard DVI,
Display Port, CRT, LVDS,
DDR3/DDR3L, Dual Giga LAN**



Features

- LGA1150 supports Intel® 4th generation Core™ i7/i5/i3 Processors
- Integrated Intel HD 4600 Graphics
- Dual Gigabit LAN
- (4) SATA3 and (6) USB 3.0
- Onboard DVI/VGA/Display Port/LVDS

CPU

- LGA1150 supports Intel® 4th generation Core™ i7/i5/i3 Processors

Chipset

- Intel Q87 Express Chipset

System Memory

- (4) DDR3/DDR3L (support 1.5V) 1333/1600 DIMM up to 32 GB

Display Interface

- Intel® integrated HD Graphics Technology
- DVI/VGA/Display Port multiple display
- Onboard 24-bit dual channel LVDS interface

Audio

- Integrated High Definition audio

Ethernet

- Intel® I210-AT Gigabit Controller
- Intel® I217-LM Gigabit (Support iAMT8.0)

I/O Interface

- (4) SATA3 (600MBps) with RAID 0,1,5,10
- (1) PS/2 keyboard/mouse port
- (6) USB 2.0 ports, (6) USB 3.0
- (5) RS232 & (1) RS232/422/485 serial ports
- (1) 8-bit GPIO port
- (1) SMBus, (1) LPC, (1) LPT
- (1) IrDA

Onboard Expansion

- (1) PCIe x16 & x4 slot, (1) PCIe mini card
- (1) mini PCI, (2) PCI slots

Power Requirement

- 24-pin ATX power

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95% relative humidity, non-condensing

Dimension

- 244mm x 244mm

Ordering Information

MBC-6250A2GNLDP Onboard DVI, Display Port, CRT, LVDS, (2) Gigabit LAN, USB3.0 & 2.0, Serial Port, SATA3, HD Audio

Micro-ATX Motherboard with LGA 1155 for Intel Core i CPU, Q67 chipset, dual gigabit LAN, six SATA with RAID, VGA & DVI dual display



Features

- LGA 1155 supports 2 Gen. Core i Processors
- Supports DDR3 1333 SDRAM up to 32GB
- Dual Gigabit LAN
- Onboard VGA & DVI dual display interface

CPU

- LGA 1155 socket for:
 - Intel® Core™ i7-2600 (3.4GHz, 95W)
 - Intel® Core™ i5-2400 (3.1GHz, 95W)
 - Intel® Core™ i3-2120 (3.3GHz, 65W)
 - Intel® Pentium® G850

Chipset

- Intel® Q67 PCH (Platform Controller Hub)

System Memory

- Four 240-pin DDR3 DIMM sockets
- Supports DDR3 1066/1333MHz up to 32GB

Display Interface

- Intel® HD Graphics
- Display ports: DVI-I (ASMedia 1442) and VGA

Audio

- Integrated High Definition Audio

Ethernet

- Dual Gigabit LAN with Intel 82579LM and Realtek RTL8111DL

I/O Interface

- (2) SATA 3.0 Ports with 600MBps
- (4) SATA 2.0 Ports with RAID 0, 1, 5, 10
- (1) PS/2 keyboard/mouse port
- (12) USB 2.0 ports
- (2) RS232/422/485 & 4 x RS232 Serial ports
- (1) VGA & DVI interface on real panel

Onboard Expansion

- (1) PCIe x16 (2.0) , (1) PCIe x 4 (2.0), (2) PCI

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 90% relative humidity, non-condensing

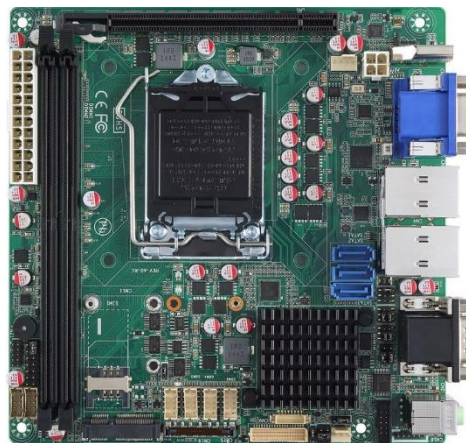
Dimension

- 244mm x 244mm

Ordering Information

MBC-6603A2GND	Micro-ATX Motherboard with LGA 1155 for Intel Core i CPU, Q67 chipset, dual gigabit LAN, six SATA with RAID
----------------------	---

**Industrial Mini-ITX
Motherboard supports
LGA1151 Intel® Core™ i7/ i5/
i3 Intel® H110 PCH, USB 3.0,
SATA 3.0, Dual LAN,
DisplayPort/VGA/HDMI**



Features

- Supports Intel 6th Gen. Core i3/i5/i7 Processors
- Dual Gigabit Ethernet supported
- (3) SATA-600 & (1) mSATA
- Watchdog & Hardware Monitor function
- HDMI/Display Port/VGA/LVDS multiple outputs

CPU

- LGA1151 socket 6th generation Intel® Core™ i7/i5/i3, Pentium® & Celeron® processor

Chipset

- Intel® H110 PCH

System Memory

- (2) 288-pin Long-DIMM dual channel DDR4-2133, max. up 32 GB

Display Interface

- Intel® HD Graphics 530/510
- (1) HDMI, (1) VGA and (1) DisplayPort
- (1) LVDS

Ethernet

- (2) Gigabit LAN with Intel® i219LM and i211AT
- Supports Wake-on-LAN, PXE Boot ROM

Audio

- Built-in HD Audio Codec

I/O Interface

- (5) RS232 & (1) RS232/422/485 serial ports
- (4) USB 3.0 and (4) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (3) SATA-600 & (1) mSATA
- (1) SIM slot

Onboard Expansion

- (1) PCIe x16 Gen3
- (1) PCI Express mini card

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

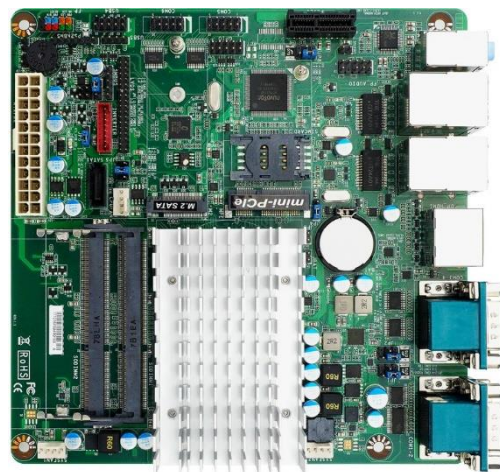
Dimension

- 170mm x 170mm

Ordering Information

MBC-6514A2GPLR LGA1151 Socket 6th
Generation Intel® Core™ i7/
i5/ i3 processors, Intel® H110
PCH, USB 3.0, SATA 3.0, Dual

**LGA1155 Socket Intel®
Core™ i7/ i5/ i3/ Celeron®
Mini ITX SBC with Intel® Q77
PCH, HDMI/DVI-I/LVDS, Dual
LANs and USB 3.0**



Features

- Intel® Apollo Lake processor
- Dual Gigabit Ethernet supported
- (1) SATA3 & (1) M.2 Socket
- Watchdog & Hardware Monitor function
- VGA/LVDS/HDMI multiple outputs

CPU

- Intel® Pentium® processor N4200 (up to 2.24 GHz) quad core SoC (Apollo Lake)
- Intel® Celeron® Processor N3350 (up to 2.4GHz) Dual Core SoC (Apollo Lake)

System Memory

- (2) 204-pin SO-DIMM dual channel DDR3L-1866, Max up 8 GB

Display Interface

- Intel® HD Graphics
- (1) HDMI 1.4 & (1) LVDS & (1)DP

Ethernet

- (2) Realtek 8111H Gigabit Ethernet Controllers

Audio

- HD Audio with Realtek ALC662

Storage

- (1) SATA3 with 6.0Gb/s
- (1) M.2 Key 2242/2260

I/O Interface

- (5) RS232 & (1) RS232/422/485 serial ports
- (4) USB 3.0 and (3) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (1) SIM slot, (1) SMBus

Onboard Expansion

- (1) Full-size PCI Express mini card

Power Requirement

- Standard ATX power supply

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

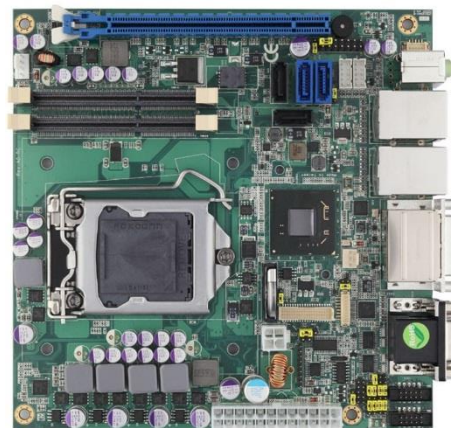
Dimension

- 170mm x 170mm

Ordering Information

MBC-4J03A2GHL-N4200	Intel® Pentium® N4200 mini ITX SBC, HDMI/ LVDS/DP, Dual GbE LAN, SATA3, USB 3.0, PCI, PCI express mini card and HD Audio
MBC-4J03A2GHL-	Onboard Intel® Celeron®

**LGA1155 Socket Intel®
Core™ i7/ i5/ i3/ Celeron®
Mini ITX SBC with Intel® Q77
PCH, HDMI/DVI-I/LVDS, Dual
LANs and USB 3.0**



Features

- LGA1155 socket 3rd Generation Intel® Core™ i7/ i5/ i3/ Celeron® processors (Ivy Bridge)
- (2) DDR3 1333/1600 MHz up to 16 GB
- PCIe x16 Gen 3 supported

CPU

- LGA1155 socket 3rd Generation Intel® Core™ i7/ i5/ i3/ Celeron® processors (Ivy Bridge)

Chipset

- Intel® Q77 PCH

System Memory

- (2) 204-pin DDR3 1333/1600 SO-DIMM max. up to 16GB

Display Interface

- Intel® HD 4000/2500 Graphics
- Supports Dual View Display
- (1) HDMI, (1) DVI-I and (1) LVDS

Audio

- HD Audio with Realtek ALC662 Codec

Ethernet

- 1st port as 10/100/1000 Mbps supports Wake-on-LAN with Intel 82579LM/V
- 2nd port as 10/100/1000 Mbps supports iAMT, Wake-on-LAN with Intel 82583V

TPM

- Infineon TPM1.2 SLB9635

I/O Interface

- (3) RS232 & (1) RS232/422/485 serial ports
- (4) USB 3.0 and (4) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (2) SATA-300; 1 x SATA-300 supports SATADOM
- (2) SATA-600 support RAID 0/1/5/10

Onboard Expansion

- 1 x PCIe x16 Gen3
- 1 x PCI Express Mini card

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 170mm x 170mm

Ordering Information

MBC-6508A2GLDR LGA1155 socket Mini ITX SBC with Intel® Core™ i7/ i5/ i3/ Celeron®, HDMI/DVI-I/LVDS, two Gigabit Ethernet and USB 3.0

**Industrial Mini-ITX Motherboard
supports mobile Intel® Skylake™
i7 / i5 / i3 H-series Processor,
DDR4 SO-DIMM up to 32GB, Multi-
Display, (2) Gigabit LAN and SATA
RAID, 6V-30V power input**



Features

- Supports Intel 6th Gen. Core i3/i5/i7 Processors
- Dual Gigabit Ethernet supported
- (3) SATA-600 with RAID 0, 1, 5, 10
- Watchdog & Hardware Monitor function
- HDMI/Display Port/DVI-I multiple outputs

CPU

- Onboard 6th Generation Intel® Skylake™ H-series Mobile Processor and Xeon E3-1505M
- Package Type: FCBGA1140

Chipset

- Intel® QM170/CM238

System Memory

- (2) 260-pin DDR4 2133 SO-DIMM up to 32GB

Display Interface

- Intel® HD Graphics 530
- (1) HDMI, (1) DVI-I and (1) DisplayPort
- 24-bit dual channel LVDS connector with +3.3V/+5V/+12V supply

Ethernet

- (1) Intel® I210 Gigabit Ethernet Controller
- (1) Intel® I219-LM Gigabit LAN PHY

Audio

- Built-in HD Audio Codec with Realtek ALC262

I/O Interface

- (5) RS232 & (1) RS232/422/485 serial ports
- (6) USB 3.0 and (4) USB 2.0 ports
- (1) 8-bit digital I/O interface
- (3) SATA-600 support RAID 0/1/5/10
- (1) SIM Socket

Onboard Expansion

- (1) PCIe x16
- (1) PCIE Mini card
- (1) Half-Size PCIE Mini card, optional for mSATA

Environment Spec

- 0 ~ 60°C operation temperature
- Operation humidity under 10% ~ 95%

Dimension

- 170mm x 170mm

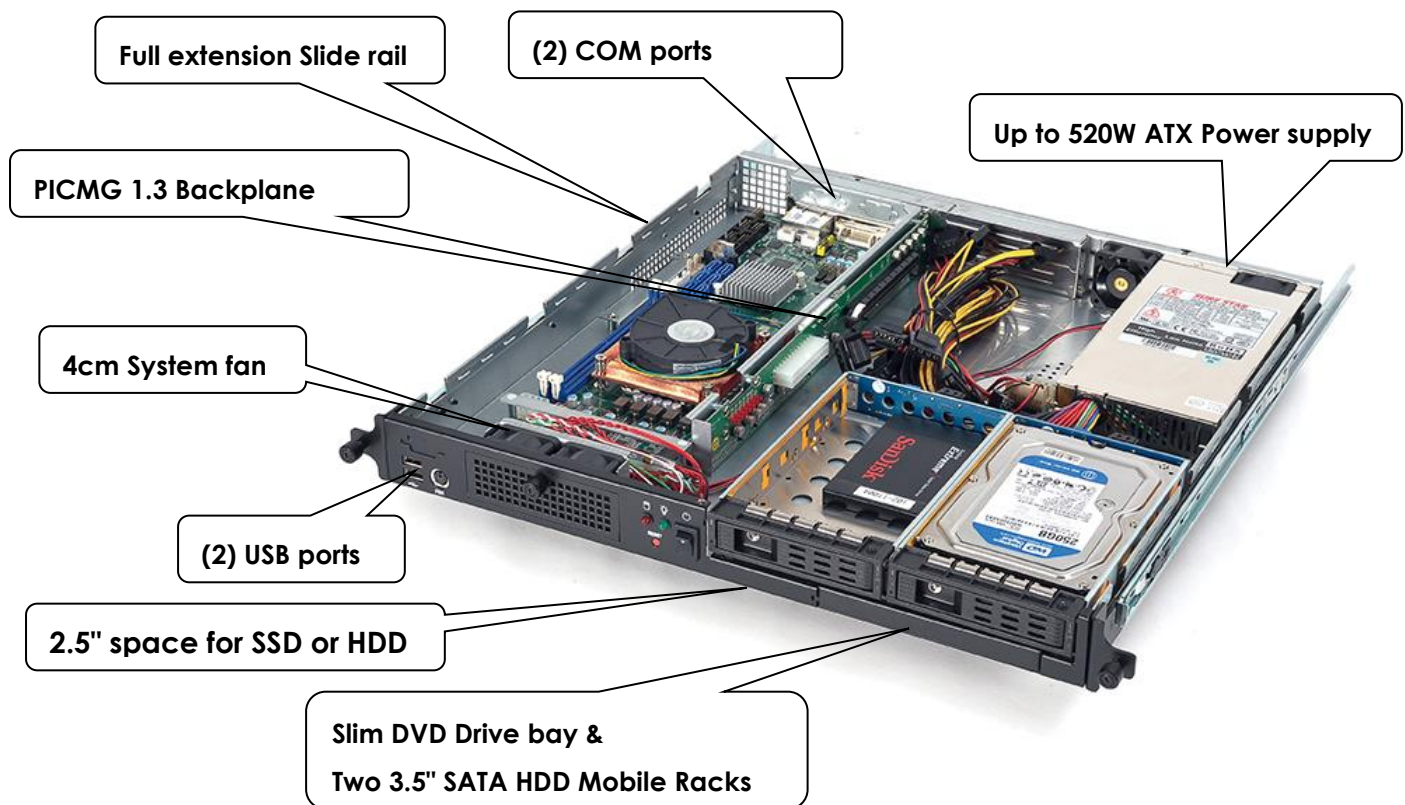
Ordering Information

MBC-6245A2GPR-6100E	Onboard Core i3-6100E,
MBC-6245A2GPR-6820EQ	Onboard Core i7-6820EQ
MBC-6245A2GPR-6820EQ	Onboard Xeon E3-1505M V6

1U Ruggedized Industrial Chassis



The Global Choice for Premium Industrial Computer Products



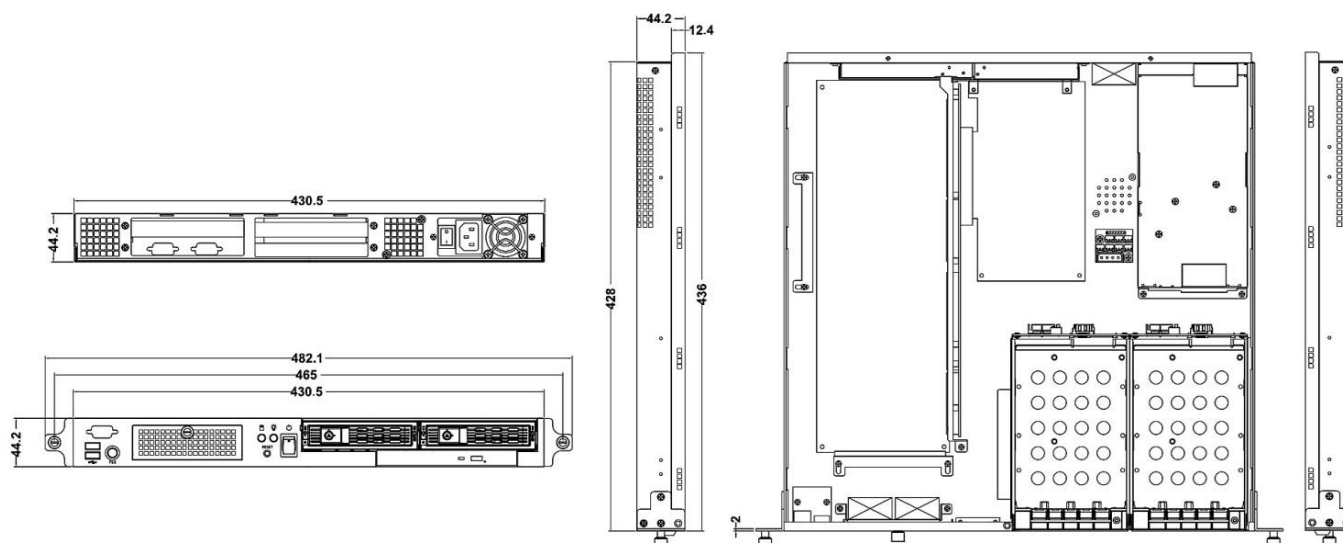
Introduction

The **RCK-103BR1** is an extended version of RCK103BR with a depth of only 436mm (17.16"), it provides an ideal solution for those applications where depth can make or break a project. The chassis is designed to support a PICMG 1.3/ 1.0 Backplane and SBC, the RCK-103BR1 proves to be a perfect choice for sub-racks and short rack cabinets. The RCK-103BR1 can support (1) Slim ODD, (2) hot swap 3.5"/2.5" and (1) 2.5" SATA drives. Additional I/O expansion can be easily configured through the (1) PCIe or (3) PCI slots on the PICMG backplane. Total of three 4cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The RCK-103BR1 provides a robust solution to Firewall Server, Proxy Server, and VPN Gateway while still remaining compact.

Features

- Heavy-duty Steel construction with only 436mm in depth
- Supports full-size SCB through PICMG1.3/1.0 butterfly backplane
- (2) 3.5"/2.5" SATA mobile racks, (1) Slim ODD drive bay, and (1) int. space for 2.5" HDD/SSD
- (2) USB and (1) PS/2 ports
- RS-232 port on front and rear panel
- (3) 4cm ball-bearing fans with replaceable air filter
- Support up to 520W 1U PSU
- Full extension Slide rail included

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- Single Board Computer

Drive Bays

- (2) 3.5"/2.5" SATA Mobile racks
- (1) Slim ODD drive bay
- (1) internal space for 2.5" HDD/SSD

Expansion

- PICMG 1.0 backplane with 3 PCI slots or PICMG 1.3 backplane with 1 PCIe x16 slot

Power Supply

- 300/460/520W ATX Power supply

Cooling System

- Three 4cm ball-bearing fans

I/O Port

- (2) USB 2.0 port
- (1) front and (2) rear RS-232 port

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 430.5(W) x 436(D) x 44.2(H) mm
- 17 (W) x 17.16 (D) x 1.74 (H) inches

Operating Temperature

- 0~55 °C

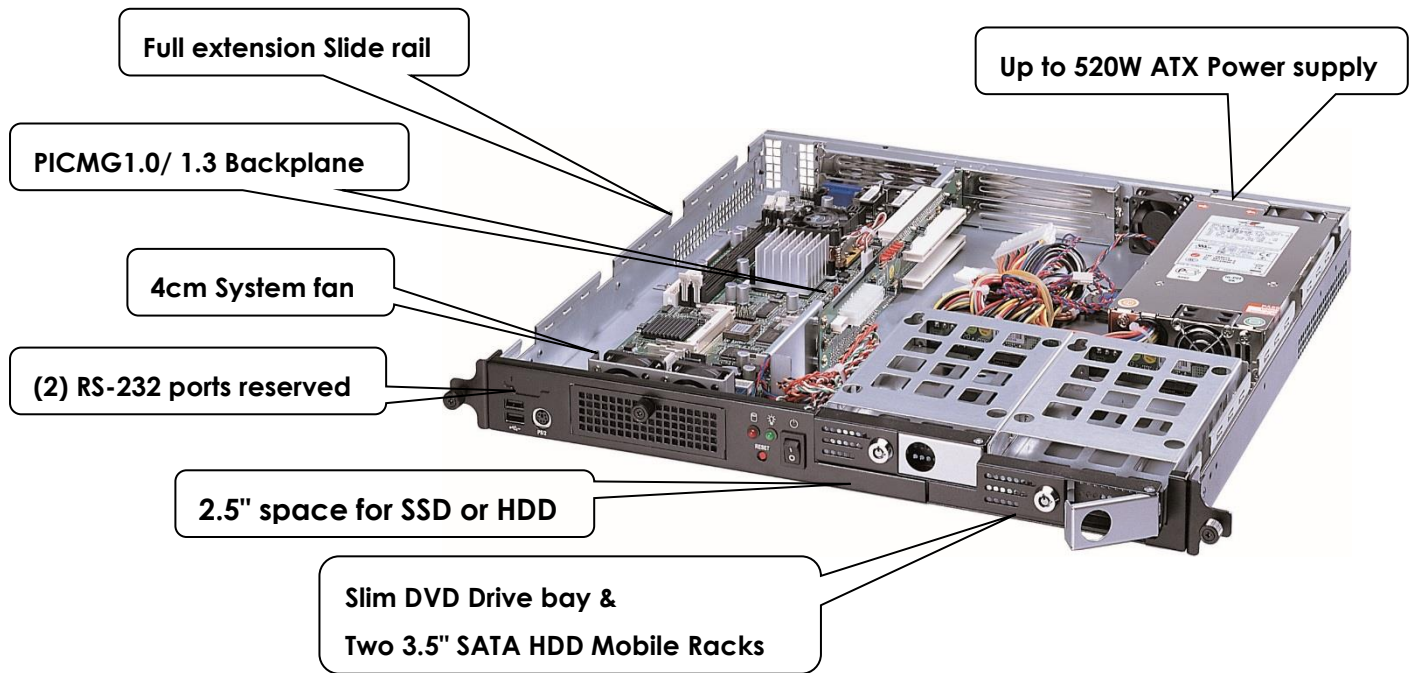
Gross Weight

- 8.8kg / 19.4lbs

Ordering Information

RCK-103BR1-201E-BLK	1U chassis for SBC board with BPE-201E backplane
RCK-103BR1-201E-300W-BLK	1U chassis for SBC board with BPE-201E backplane and 300W PSU
RCK-103BR1-201E-460W-BLK	1U chassis for SBC board with BPE-201E backplane and 460W PSU
RCK-103BR1-403P-BLK	1U chassis for SBC board with BP-403PA0-1U backplane
RCK-103BR1-403P-300W-BLK	1U chassis for SBC board with BP-403PA0-1U backplane and 300W PSU

RCK-103BR



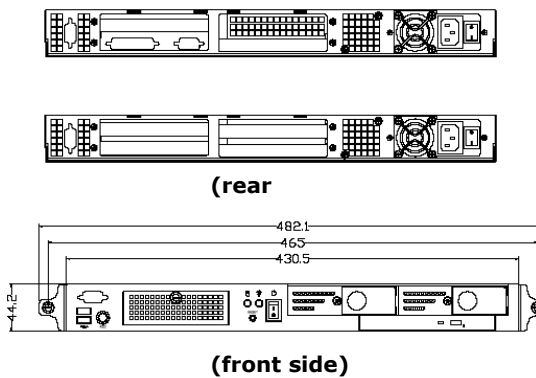
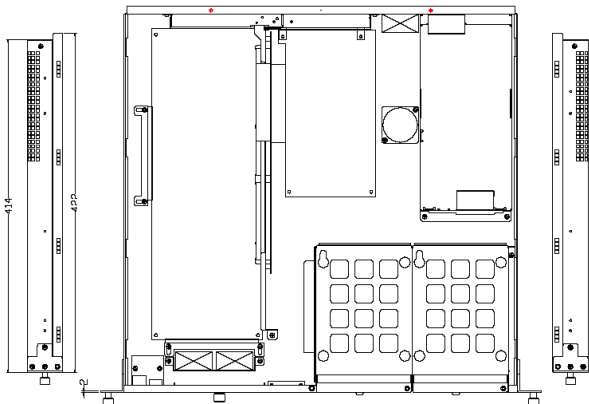
Introduction

The **RCK-103BR** boasts a depth of only 422mm (16.6"), and is one of the shortest 1U chassis providing an ideal solution for those applications where depth can make or break a project. Designed to support a PICMG 1.0/ 1.3 Backplane and SBC, the RCK-103BR proves to be a perfect choice for sub-racks and short rack cabinets. The RCK-103BR can support (1) Slim DVD, and (2) 3.5" SATA HDD. Additional I/O expansion can be easily configured through the 3 PCI slots found on the optional PICMG backplane. Total of three 4cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-103BR** provides a robust solution to Firewall Server, Proxy Server, VPN Gateway while still remaining compact.

Features

- Heavy duty steel construction with only 422mm in depth
- Supports Full-size SBC through PICMG1.0/ 1.3 butterfly backplane
- (1) Slim DVD drive bay, (2) 3.5" SATA HDD mobile racks, (1) 2.5" space for SSD or HDD
- USB and PS/2 ports on the front panel
- RS-232 on front and rear panel
- Three 4cm ball-bearing fans to ensure excellent heat dissipation
- Optional 300/ 400/ 460 and 520W ATX Power supply
- Full extension Slide rail

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- **Single Board Computer**

Drive Bays

- (1) Slim DVD, (2) 3.5" SATA HDD mobile racks, (1) 2.5" space for SSD or HDD

Expansion

- **PICMG 1.0 backplane with 3 PCI slots or PICMG 1.3 backplane with 1 PCIe x16 slot**

Power Supply

- 300/ 400/ 460/ 520W ATX Power supply

Cooling System

- Three 4cm ball-bearing fans

Audio

- One 8Ω system buzzer

Switches

- ### ● On/Off Switch and Reset Switch

Indicators

- ### ● Power On/Off LED and HDD LED

Dimensions

- 430.5(W) x 422(D) x 44.2(H) mm
- 16.9 (W) x 16.6 (D) x 1.66 (H) inches

Operating Temperature

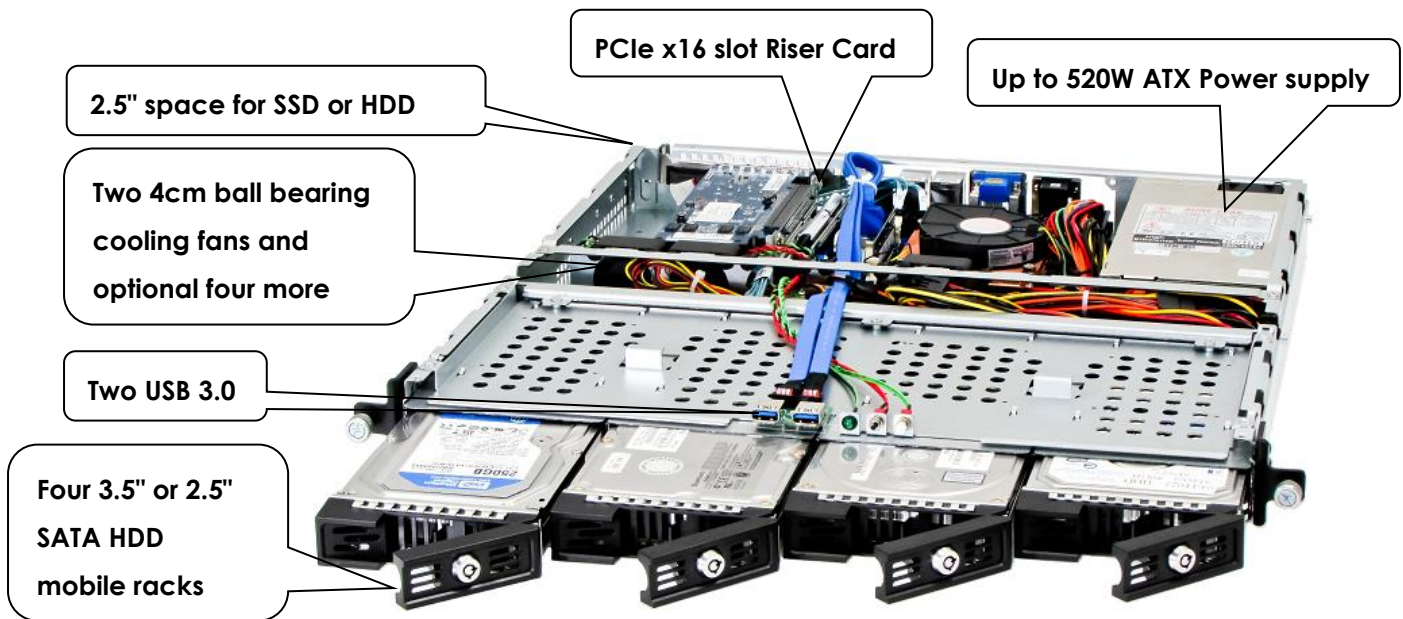
- 0~45 °C

Gross Weight

- 10.8kg / 23.8lbs

Ordering Information

RCK-103BR -403P-300W	1U chassis with (1) PICMG & (3) PCI slots backplane, and 300W ATX PSU
RCK-103BR -403P-460W	1U chassis with (1) PICMG & (3) PCI slots backplane, and 460W ATX PSU
RCK-103BR -201E-300W	1U chassis with (1) PICMG1.3 & (1) PCIe x16 slot backplane, and 300W ATX PSU
RCK-103BR -201E-460W	1U chassis with (1) PICMG1.3 & (1) PCIe x16 slot backplane, and 460W ATX PSU



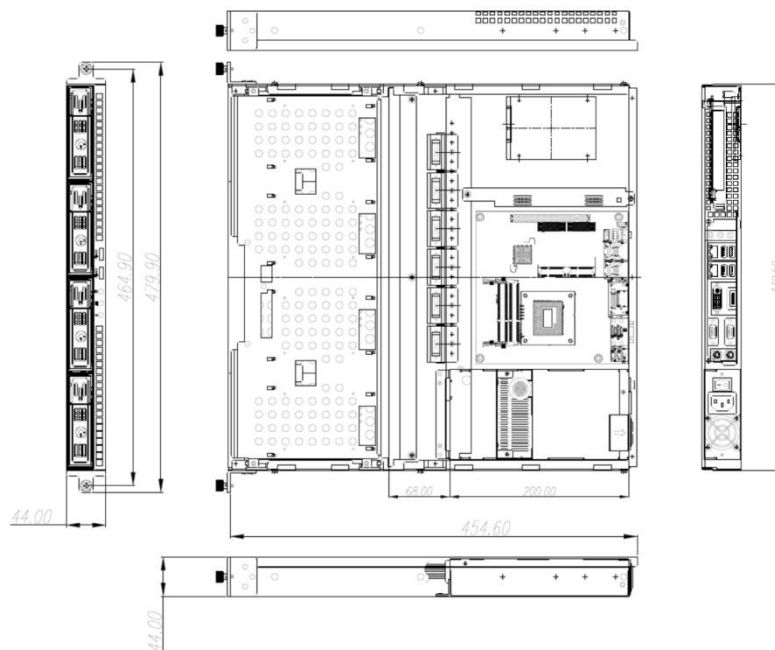
Introduction

The RCK-104M is a convenient design for 1U Rackmount Chassis to enable the integration of Firewall Server, Proxy Server, VPN Gateway system and etc. RCK-104M ingenious mechanical design for the slim depth of 455mm which gives consideration to short dimension, superior heat dissipation up to six fan(4cm). It is a compact slim chassis can accommodate FOUR HDD Mobile Racks for 3.5" or 2.5" SATA HDD and ONE 2.5" internal space for SSD or HDD to expand your storage capacity. Equipped to support Mini-ITX motherboard for core i3/i5/i7 processor. The RCK-104M proves to be a perfect choice for sub-racks and short rack cabinets.

Features

- Heavy duty steel construction with only 455 mm in depth
- Supports Mini-ITX motherboard
- (4) 3.5" or 2.5" SATA HDD mobile racks
- Support motherboard with onboard SAS port (with optional SAS cable)
- (1) 2.5" space for SSD or HDD
- (2) Front USB 3.0 ports
- (2) 4cm ball bearing cooling fans and optional four more fans
- PCIe x16 riser card
- Supports 1U up to 520W ATX power

Mechanical Drawing



Construction

- 1.0 mm Heavy-duty steel

Color

- Silver

Board Support

- Mini-ITX motherboard

Drive Bays

- (4) 3.5" or 2.5" external Drive & (1) 2.5" internal Drive bay
- Supports motherboard with onboard SAS port (with optional SAS cable)

Expansion

- (1) PCIe x16 slot

Power Supply

- 1U ATX power supply

Cooling System

- (2) 4cm ball bearing cooling fans
- (4) Extra space for additional 4cm fan

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 430.5(W) x 454.6(D) x 44.2(H) mm
- 16.9 (W) x 17.89 (D) x 1.66 (H) inches

Operating Temperature

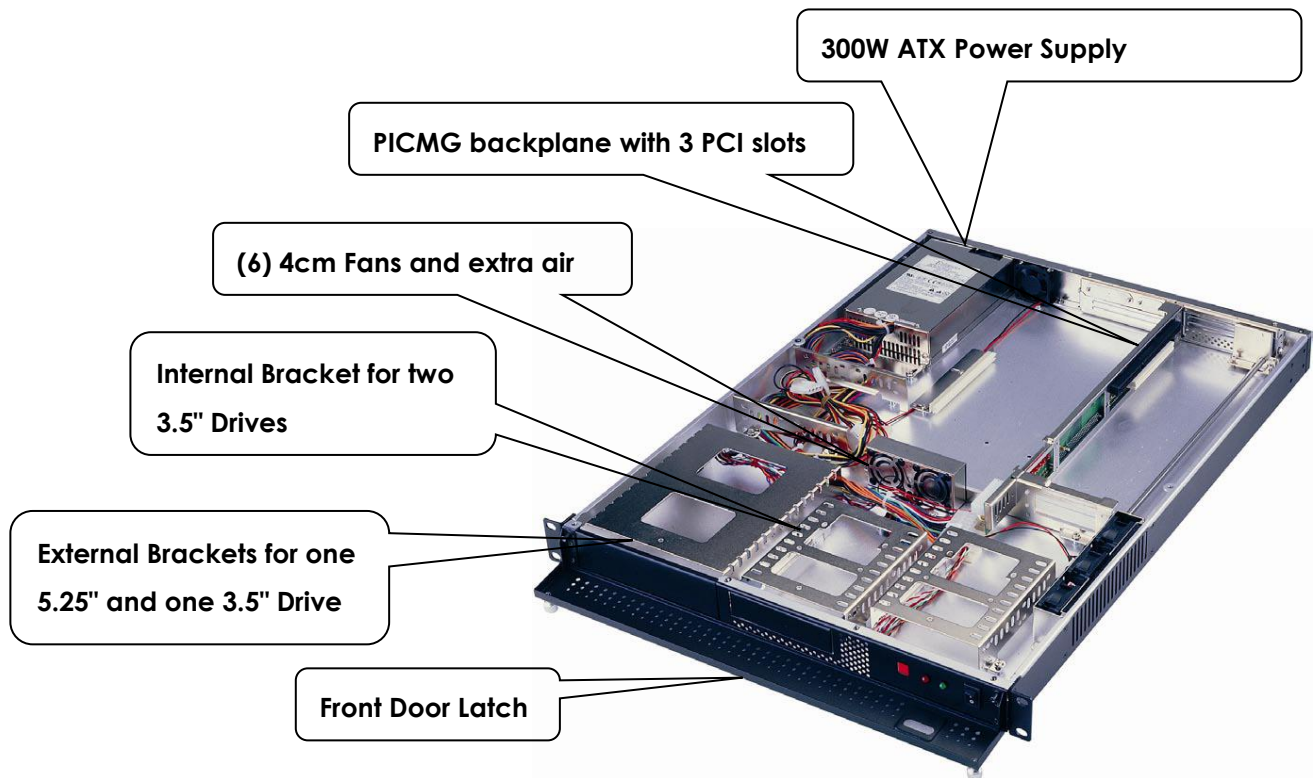
- 0~55 °C

Gross Weight

- 10.8kg / 23.8lbs

Ordering Information

RCK-104M	1U chassis for Mini-ITX motherboard with (4) 3.5" or 2.5" Drive bays and (1) 2.5" space
RCK-104M -300W	1U chassis for Mini-ITX motherboard with (4) 3.5" or 2.5" Drive bays and (1) 2.5" space , and 300W ATX PSU
RCK-104M -460W	1U chassis for Mini-ITX motherboard with (4) 3.5" or 2.5" Drive bays and (1) 2.5" space , and 460W ATX PSU
RCK-104M -520W	1U chassis for Mini-ITX motherboard with (4) 3.5" or 2.5" Drive bays and (1) 2.5" space , and 520W ATX PSU



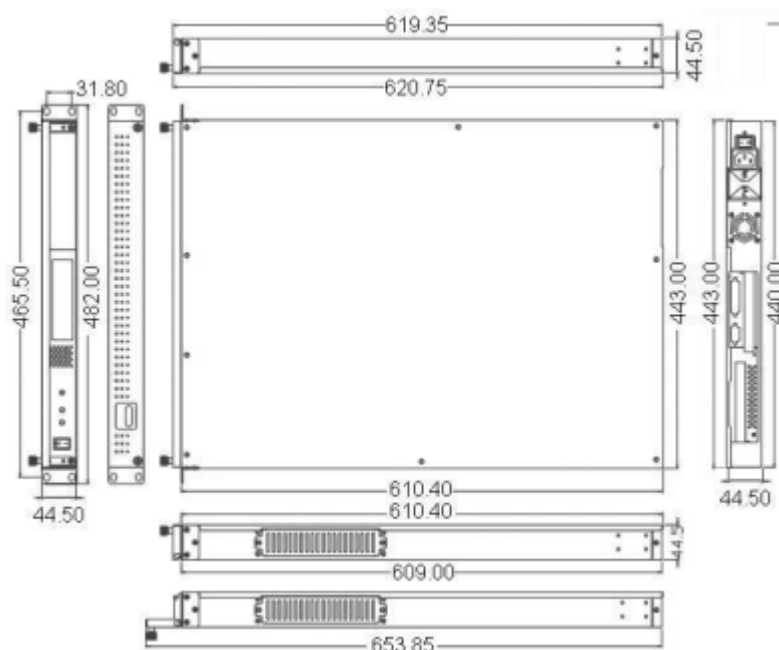
Introduction

RCK-104B is one of the lightest industrial grade chassis in the market. It can be rackmounted without having to add too much burden to your rack. This 1U chassis supports PIII or P4 Full/Half Size SBC and additional peripherals through optional 1 or 3 PCI slot PICMG backplane. Supported by six 4 cm fans, the design allows efficient airflow to ensure excellent heat dissipation critical for system stability and durability. With one 5.25" CD/DVD-ROM drive bay, one 3.5" FDD drive bay and two hidden 3.5" drive bays for HDD, **RCK-104B** is an ideal solution for NAS server, FTP, WEB, Mail or Fire-wall server, client server or data backup server.

Features

- Ultra-light aluminum rackmount standard 1U chassis with heavy duty steel front door
- Supports Full Size SBC through PICMG butterfly backplane
- Supports Full Length PCI Expansion
- One 5.25" CD/DVD-ROM drive bay, one 3.5" FDD drive bay and two 3.5" hidden drive bays for HDD
- Modular design for easy installation and maintenance
- Six 4cm fans plus ventilation on chassis' side to ensure excellent heat dissipation

Mechanical Drawing



Construction

- Aluminum

Color

- Black

Board Support

- Full-Size PIII/PIV Single Board Computer

Drive Bays

- (1) 5.25" + (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- PICMG backplane with 3 PCI slots

Power Supply

- 300W 1U ATX power supply (PFC optional)

Cooling System

- Total (6) 4 cm fans

Audio

- One 8Ω system buzzer

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 443 (W) x 620.8 (D) x 44.5 (H) mm
- 17.4 (W) x 24.4 (D) x 1.8 (H) inches

Operating Temperature

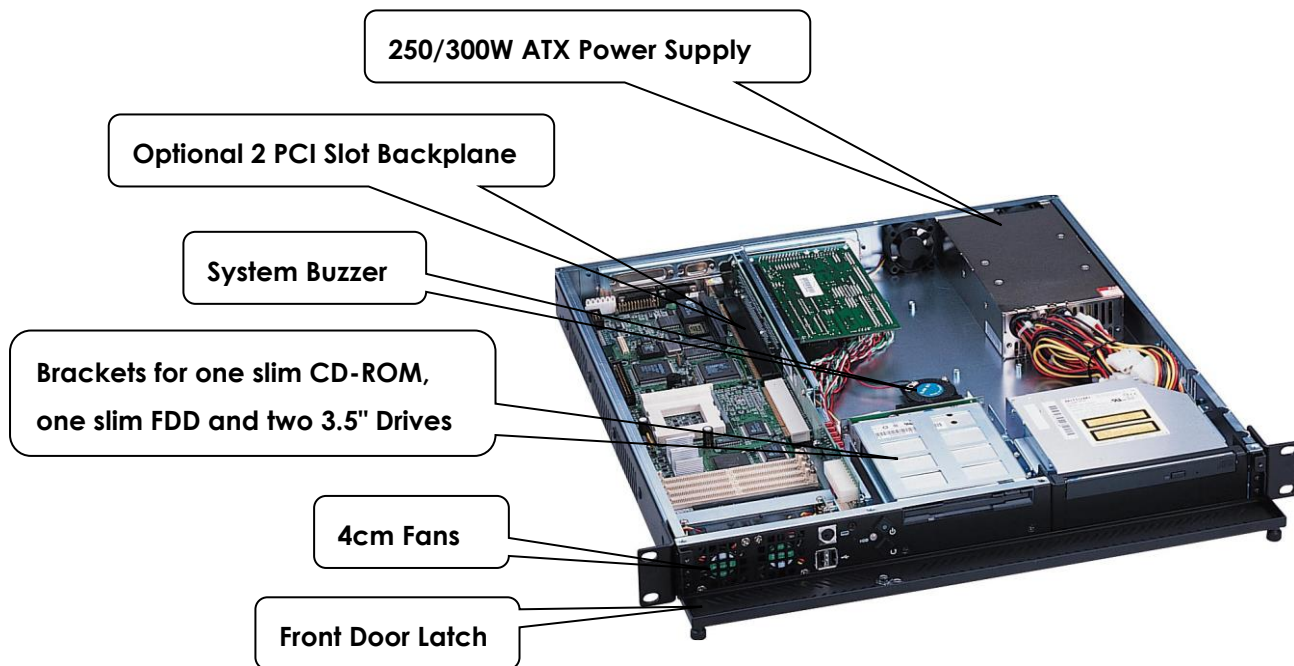
- 0~45 °C

Gross Weight

- 7kg

Ordering Information

RCK-104B-403P-300W	RCK-104B with (1) PICMG, (3) 32-bit PCI slot backplane and 300W ATX power supply
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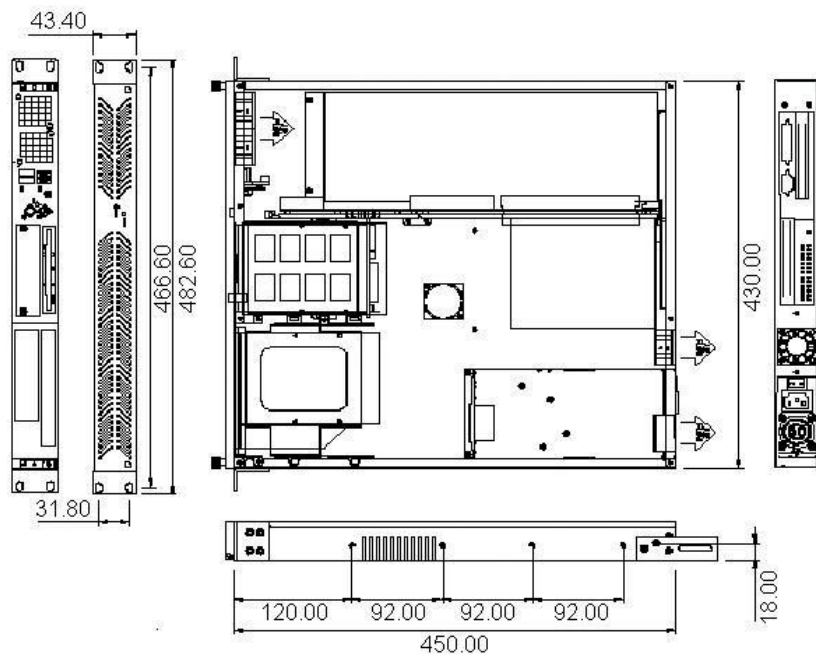
Introduction

The **RCK-104BA** boasts a depth of only 450mm (17.7"), and is one of the shortest 1U chassis providing an ideal solution for those applications where depth can make or break a project. Designed to support a PICMG Backplane and Full or Half-Size SBC, the RCK-104BA proves to be a perfect choice for any ISP or Telecom application. The RCK-104BA can support up to four drive bays, (1) slim CD-ROM/DVD-ROM, (1) slim FDD, and (2) "hidden" internal 3.5" bays. Additional I/O expansion can be easily configured through the 2 PCI slots found on the optional PICMG backplane. Total of three 4cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-104BA** provides a robust solution to Firewall Server, Proxy Server, VPN Gateway while still remaining compact.

Features

- Heavy duty steel construction with only 450mm in depth
- Supports Full Size SBC through PICMG butterfly backplane
- Supports Full Length PCI Expansion
- Drive Bays: (1) Slim CD-ROM, (1) Slim FDD, (2) 3.5"HDD (Hidden)
- USB and PS/2 ports on the front panel
- Three 4cm ball bearing fans to ensure excellent heat dissipation
- Optional 250/300W ATX power supply included

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- Single Board Computer

Drive Bays

- (1) Slim CD-ROM, (1) Slim FDD, (2) 3.5"HDD (Hidden)

Expansion

- PICMG backplane with 2 PCI slot

Power Supply

- 250/300W ATX power supply

Cooling System

- Three 4cm ball bearing fans

Audio

- One 8Ω system buzzer

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 430(W) x 450(D) x 43.4(H) mm
- 16.9 (W) x 17.7 (D) x 1.7 (H) inches

Operating Temperature

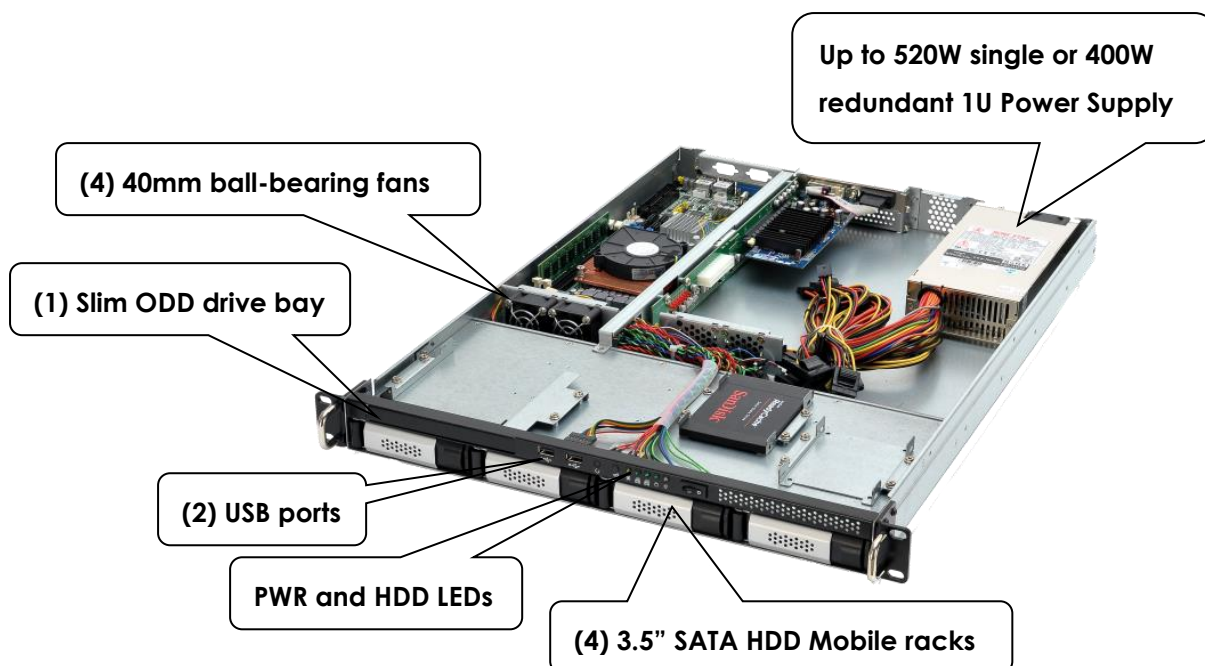
- 0~45 °C

Gross Weight

- 10.8kg

Ordering Information

RCK-104BA	1U chassis RCK-104BA with 1
-403P-250W	PICMG,2 PCI backplane and 1U 250W ATX power supply
RCK-104BA	1U chassis RCK-104BA with 1
-403P-300W	PICMG,2 PCI backplane and 1U 300W ATX power supply



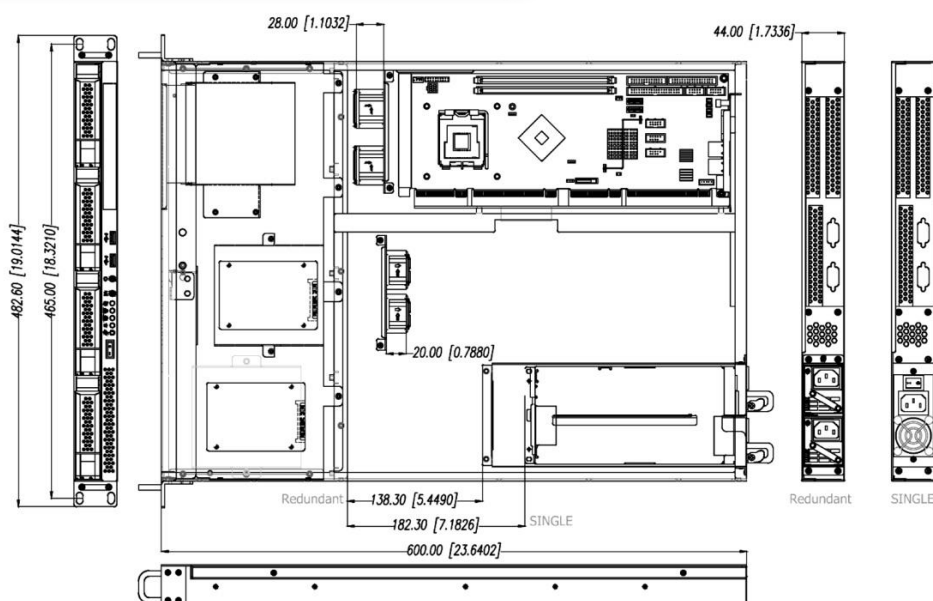
Introduction

The **RCK-107BR** is a rugged 1U server chassis with a depth of 600mm (23.62"), and 4 HDD mobile racks, providing an ideal solution for critical applications such as Data Center, Storage, Cloud solution. Designed to support a PICMG 1.3 Backplane and SBC board, the RCK-107BR proves to be a perfect choice for Server cabinets. Additional I/O expansion can be easily configured through the PCI3 x16 slot found on the PICMG 1.3 backplane. Total of four 4cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The RCK-107BR provides a robust solution to Firewall Server, Proxy Server, VPN Gateway.

Features

- Heavy-duty steel construction with 600mm in depth
- Support Full-size SBC through PICMG 1.3 backplane with 1x PCIe x16 slot
- (4) 3.5" SATA HDD mobile racks,
- (1) Slim ODD drive bay
- (2) 2.5" space for SSD or HDD
- (2) USB ports on front panel
- LED indicators
- (4) 40mm ball-bearing fans
- Supports 1U power supply:
 - Up to 520W single PSU, or
 - 400W redundant PSU
- Optional ball-bearing slide rail

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black front panel with silver color chassis

Board Support

- Single Board Computer

Drive Bays

- (4) 3.5" SATA HDD mobile racks
- (1) Slim ODD drive bay
- (2) Space for 2.5" SSD or HDD drives

Expansion

- Backplane with one PCI slot or PCIe x16 slot

Power Supply

- Up to 520W single or 400W 1U redundant Power supply

Cooling System

- Three 4cm ball bearing fans

Audio

- One 8Ω system buzzer

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 432(W) x 600(D) x 44(H) mm
- 17 (W) x 23.62(D) x 1.73 (H) inches

Operating Temperature

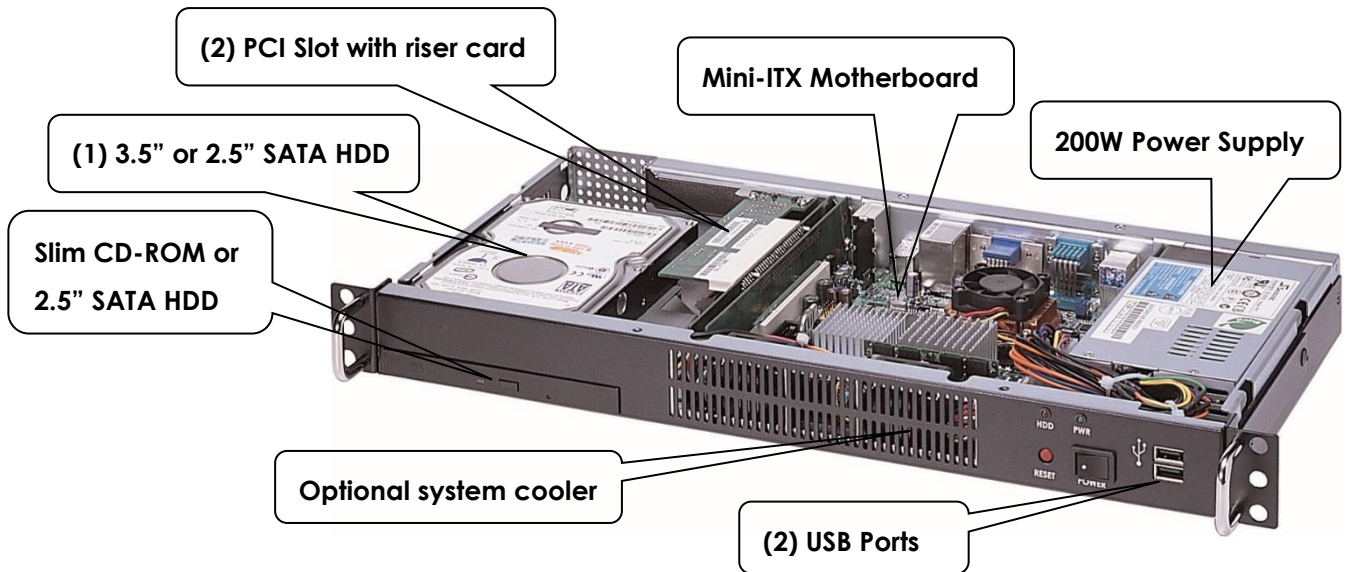
- 0~45 °C

Gross Weight

- 7.2kg

Ordering Information

RCK-107BR-201E	1U Server chassis with (1) PICMG 1.3 & (1) PCIe x16 Slots backplane
RCK-107BR-201E -300W	1U Server chassis with PICMG 1.3 backplane and 300W PSU
RCK-107BR-201E -460W	1U Server chassis with PICMG 1.3 backplane and 460W PSU
RCK-107BR-201E -520W	1U Server chassis with PICMG 1.3 backplane and 520W PSU
RCK-107BR-201E -400WR	1U Server chassis with PICMG 1.3 backplane and 400W redundant PSU



Introduction

The **NDS-102M** chassis is ultra compact 1U chassis made of heavy-duty steel with 200watt 1U industrial power supply, designed for standard 19" rack cabinet, supports Mini-ITX motherboards (17cm x 17cm). With its compact size, the chassis still remains up to 2 PCI expansions through riser card and supports up to 2 HDD drives. The front panel provides two USB 2.0 ports and optional two 40mm system fans for high performance system. The **NDS-102M** also provides rackmount kit and wallmount kit; users can change the mounting type for different applications. It is the ideal platform for an almost unlimited variety of applications like servers, digital signage system, Set Top Box, entertainment center or other industrial PC designs.

Features

- EIA RS-310C 19" Rackmount Standard 1U height
- Heavy-Duty Steel
- Supports Mini-ITX motherboard
- Supports up to (2) HDD
- (2) 2.0 USB ports on front panel
- Optional (2) system fans
- 200W PFC Power Supply
- Wallmount and Rackmount kit

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (2) 2.5" SATA HDD or (1) 2.5" HDD & (1) Slim ODD or (1) 3.5" SATA HDD & (1) 2.5" SATA HDD

Expansion

- (2) 32-bit PCI slots through riser card

Power Supply

- 200W ATX power supply (PFC)

Cooling System

- Optional (2) System Fans

Ports

- (2) USB 2.0 connectors

Switches

- Power ON/OFF, Safety System Reset

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 430 (W) x 220 (D) x 44 (H) mm
- 16.9 (W) x 8.7 (D) x 1.7 (H) inches

Operating Temperature

- 0~55 °C

Net/Gross Weight

- 2.5Kgs/3.4Kgs

Ordering Information

NDS-102M

1U chassis for Mini-ITX motherboard with 200W ATX power supply

2U Ruggedized Industrial Chassis



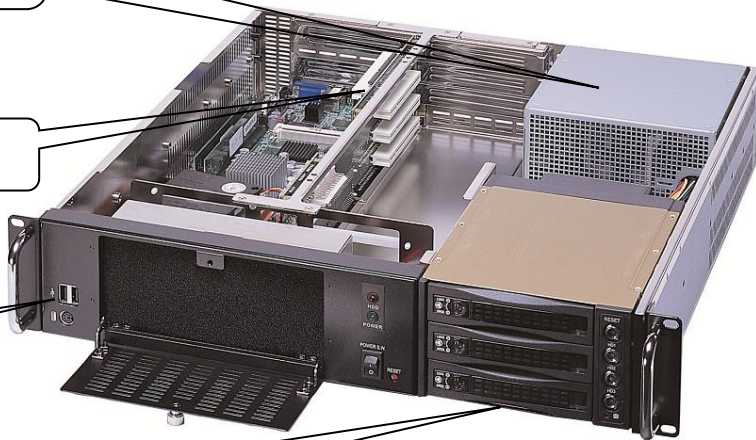
The Global Choice for Premium Industrial Computer Products

Single or redundant Power Supply

PICMG1.0 /1.3 Backplane

(2) USB & PS/2

(2) 5.25" bays or (3) HDD mobile rack



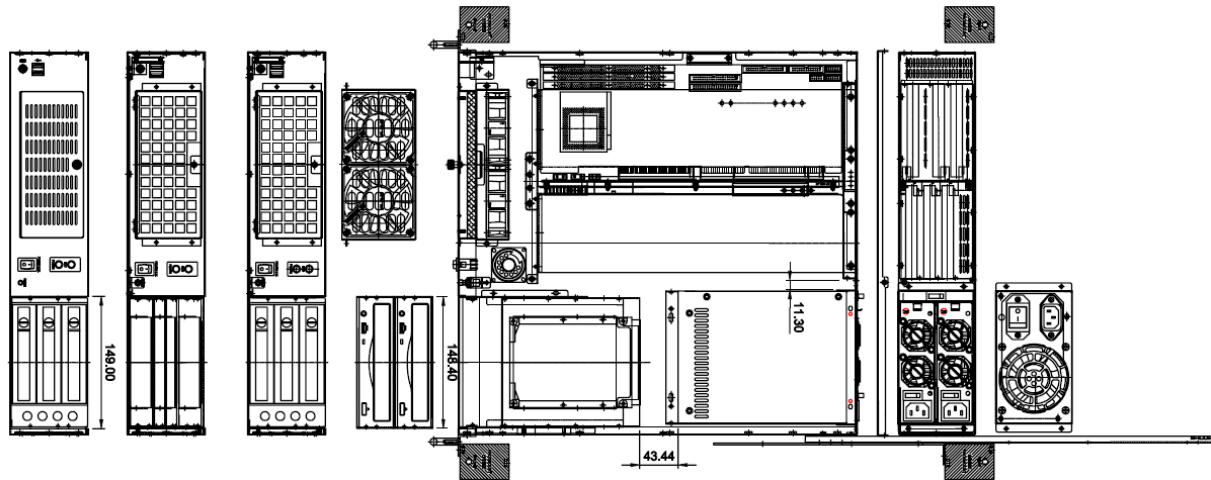
Introduction

The **RCK-202B** boasts a depth of only 450mm (17"), thus it provides an ideal solution for those applications where depth can make or break a project. Designed to support a PICMG Backplane and Full-Size SBC, the RCK-202B proves to be a perfect choice for any DVR or storage application. The RCK-202B can support up to three drive bays, (2) 5.25" or (3) 3.5" internal drives. Additional I/O expansion can be easily configured through the optional 2 or 4-PCI slots found on the PICMG backplane. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-202B** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard Heavy Duty Steel with Ni Plating
- Supports Full Size SBC
- Supports Full Length PCI Expansion
- Supports PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for expansion
- Supports (2) 5.25" bays or (3) HDD mobile rack
- Slide Rail applicable
- Lockable front door and replaceable air filter
- 2 x 8cm Replaceable High-speed ball bearing fans for better ventilation
- PS/2 or Hot Swap Redundant Power Supply

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black

Board Support

- Full Size Single Board Computer

Drive Bays

- (2) 5.25" bays or (3) HDD mobile rack

Expansion

- PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for expansion

Power Supply

- 400W/600W PS/2 ATX power supply (80PLUS) or 400W Hot Swap Redundant Power Supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Front Panel Connectors

- (2)USB 2.0 ports, and PS/2 connector

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

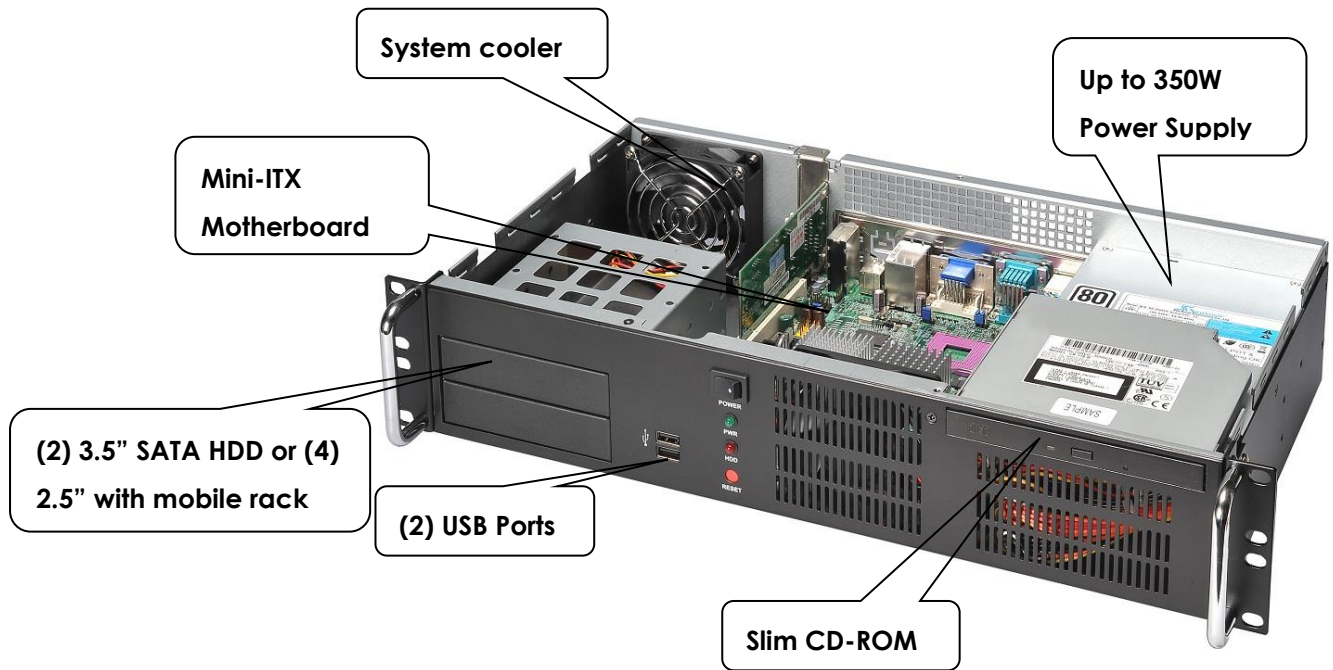
- 0~55 °C

Net/Gross Weight

- 7.6Kg/11.3kg

Ordering Information

RCK-202B-0604P-400W	RCK-202B with (4PCI, 2PICMG1.0) butterfly backplane and 400W 80PLUS ATX PS/2 power supply
RCK-202B-0502P-400W	RCK-202B with (2PCI, PICMG1.3) butterfly backplane and 400W 80PLUS ATX PS/2 power supply
MR-K22C3	Mobile Rack with (3) Drive Bays for 3.5" SATA HDD
MT-SR120	Slide Rail



Introduction

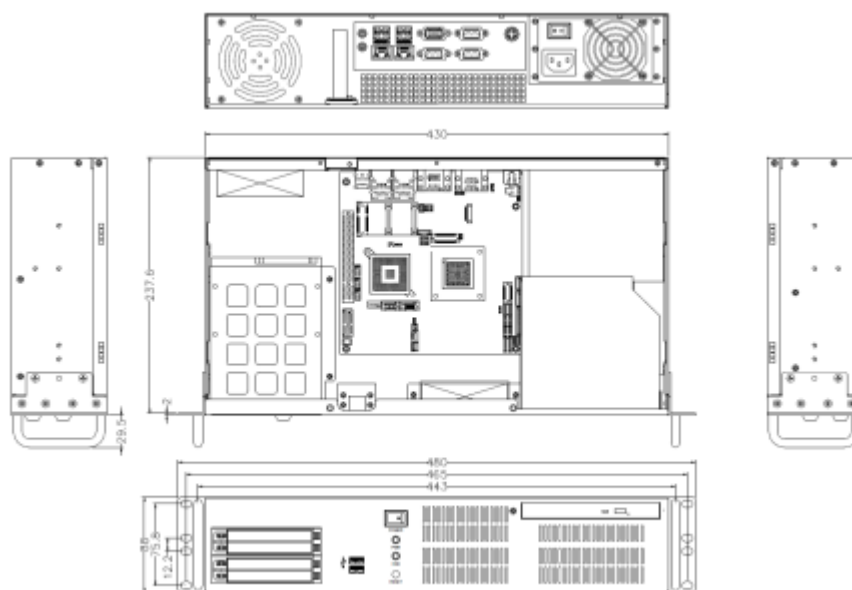
The **NDS-203M** chassis is ultra compact 2U rackmount chassis made of heavy-duty steel with up to 350W power supply, designed for standard 19" rack cabinet, supports Mini-ITX motherboards (17cm x 17cm). With its compact size, the chassis supports (1) slim optical drive and (2) 3.5" SATA HDD. The front panel provides two USB 2.0 ports and optional two system fans for high performance system.

The **NDS-203M** is the ideal platform for an almost unlimited variety of applications like servers, digital signage system, Set Top Box, entertainment center or other industrial PC designs.

Features

- EIA RS-310C 19" Rackmount Standard 2U height
- Heavy-Duty Steel
- Supports Mini-ITX motherboard
- Supports up to (4) HDD with mobile rack
- (2) 2.0 USB ports on front panel
- Optional (2) system fans

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (2) 3.5" SATA HDD
- Optional (4) 2.5" SATA HDD with mobile rack
- (1) slim optical drive bay

Power Supply

- Up to 350W micro-ATX power supply

Cooling System

- Optional (2) System Fans

Ports

- (2) USB 2.0 connectors

Switches

- Power ON/OFF, Safety System Reset

Indicators

- One power on/off LED and one HDD LED

Expansion Slot

- One low profile expansion slot

Dimensions

- 430 (W) x 239.6 (D) x 88 (H) mm
- 16.9 (W) x 9.4 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

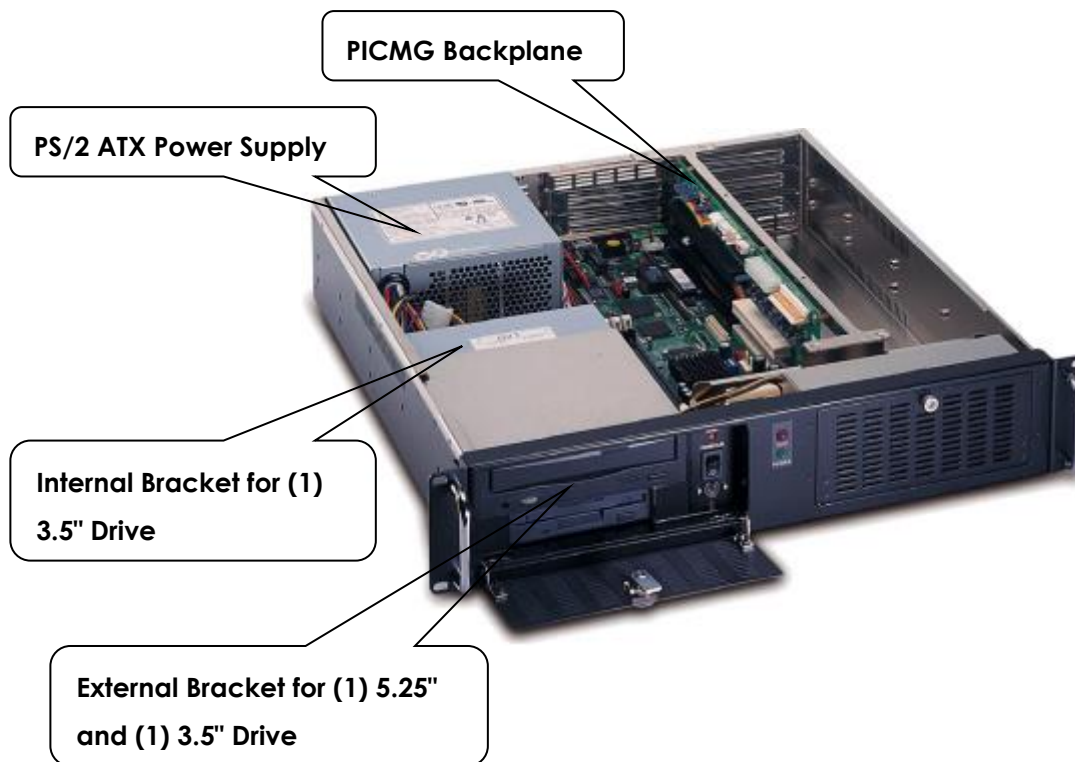
Gross Weight

- 7kg

Ordering Information

NDS-203M-300W

2U chassis for Mini-ITX motherboard with 300W ATX power supply



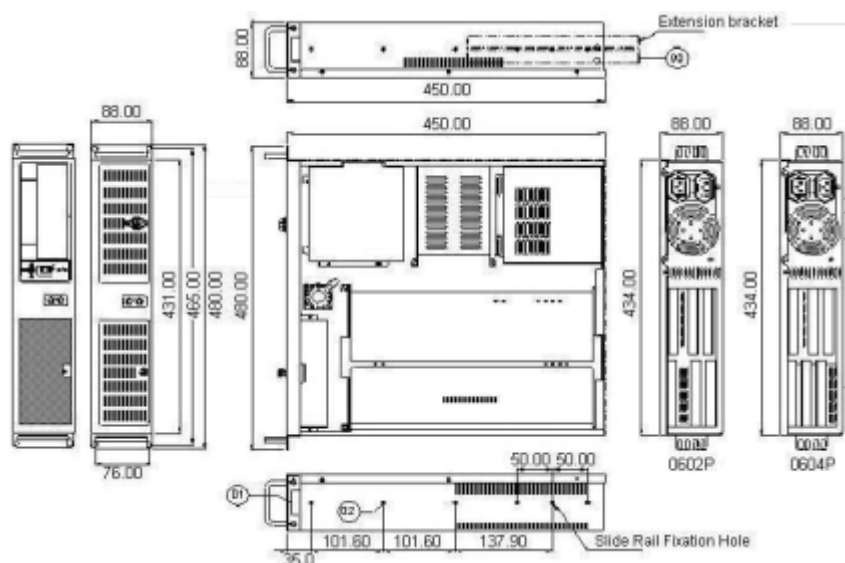
Introduction

The **RCK-203B** boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where depth can make or break a project. Designed to support a PICMG Backplane and Full or Half-Size SBC, the RCK-203B proves to be a perfect choice for any ISP or Telecom application. The RCK-203B can support up to three drive bays, (1) 5.25" CD-ROM/DVD-ROM, (1) 3.5" FDD, and (1) "hidden" internal 3.5" bays. Additional I/O expansion can be easily configured through the optional 2 or 4-PCI slots found on the PICMG backplane. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-203B** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- Supports Full Size SBC
- Supports Full Length PCI Expansion
- Supports PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for Expansion
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- 2 x 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- 350W/400W ATX Auto-switch Power Supply

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- Full Size PIII/PIV Single Board Computer

Drive Bays

- (1) 5.25" + (1) 3.5" external drives and (1) 3.5" internal drives

Expansion

- PICMG1.0/1.3 Backplane with optional 2 or 4 PCI slots for Expansion

Power Supply

- 350W/400W PS/2 ATX power supply (80PLUS optional)

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

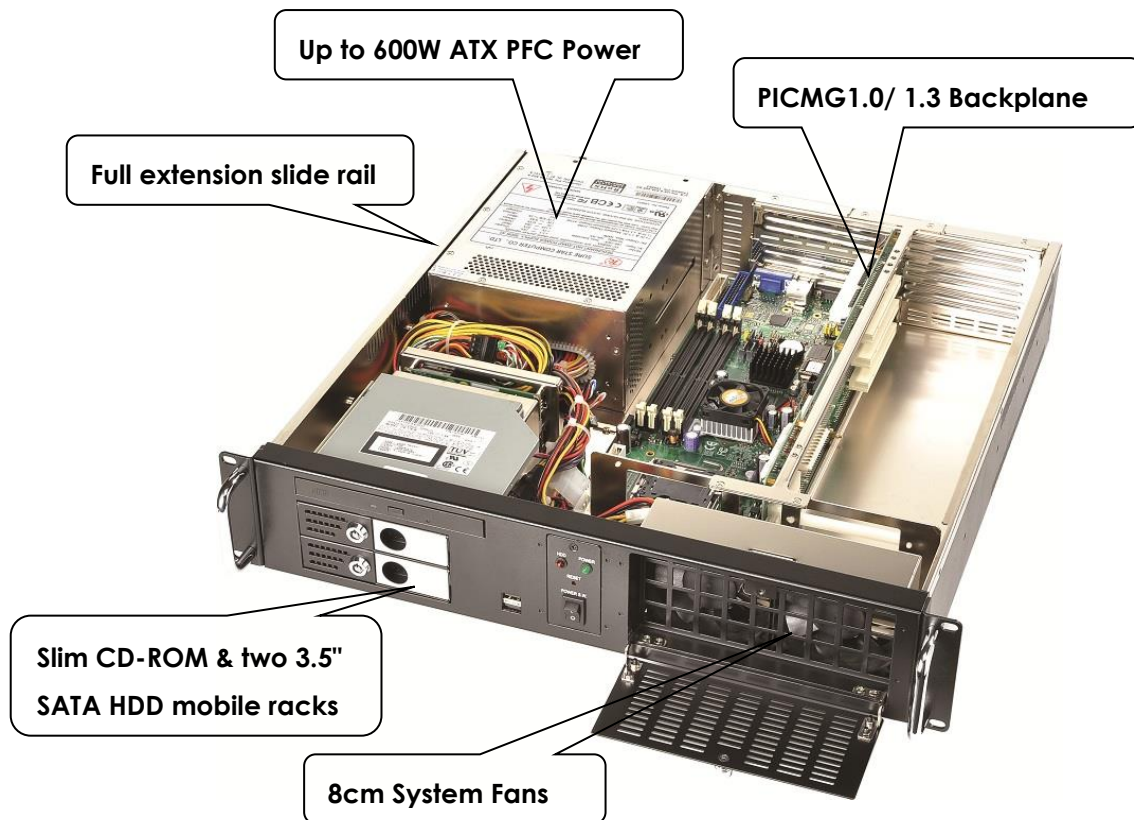
- 0~55 °C

Net/Gross Weight

- 7.5Kg/10.2kg

Ordering Information

RCK-203B -0602P-350W	2U chassis RCK-203B with (2 PCI, 2 ISA, 2 PICMG) butterfly backplane and 350W 80PLUS ATX PS/2 power supply
RCK-203B -0604P-400W	2 U chassis RCK-203B with (4 PCI, 2PICMG) butterfly backplane and 400W ATX PS/2 power supply
SR-120	Slide Rail



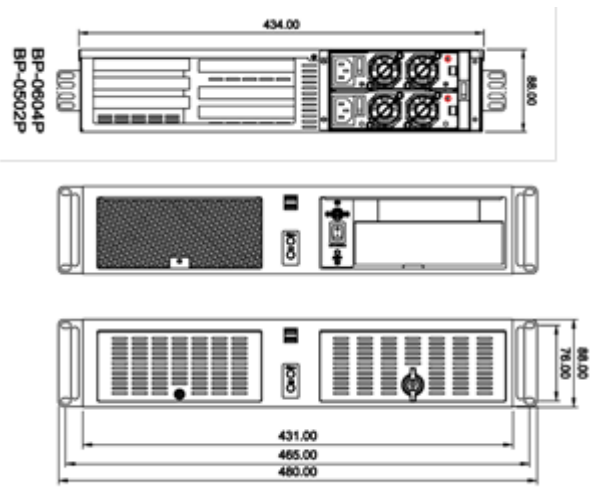
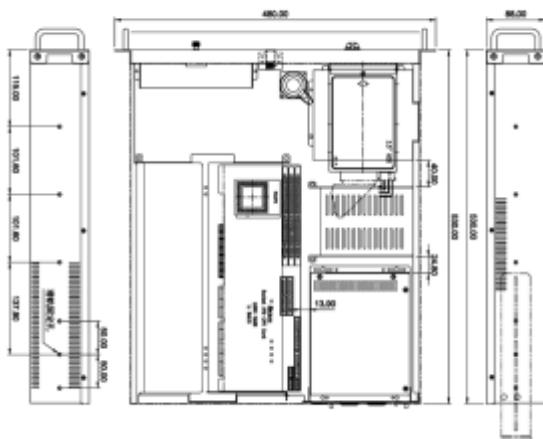
Introduction

The **RCK-203BR** is a 2U Rackmount chassis with a depth of only 450mm (17 inch). The chassis is designed to support a PICMG 1.0 or 1.3 SBC through a butterfly backplane, and thus is a perfect choice for sub-racks and short rack cabinets. The RCK-203BR can support (1) slim CD-ROM, and (2) 3.5" SATA HDD. Additional I/O expansion can be easily configured through the (4) PCI slots found on the optional PICMG backplane. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. To ensure the 7/24 stable runtime system, the chassis also supports mini redundant power supply. The **RCK-203BR** provides a robust solution to Firewall Server, Proxy Server, VPN

Features

- Heavy duty steel construction with only 450mm in depth
- Supports Full Size SBC through PICMG1.0/ 1.3 butterfly backplane
- Drive Bays: (1) Slim CD-ROM, (2) 3.5" SATA HDD mobile racks
- USB ports on the front panel
- Two 8cm ball bearing fans to ensure excellent heat dissipation
- Optional up to 600W ATX power supply or mini-redundant power supply included
- Full extension slide rail

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black, optional other color by order

Board Support

- **Single Board Computer**

Drive Bays

- (1) Slim CD-ROM, (2) 3.5"SATA HDD mobile racks

Expansion

- PICMG 1.0 backplane with (4) PCI slots
- PICMG 1.3 backplane with (1) PCIe x16, (1) PCIe x4 and (2) PCI slots

Power Supply

- Up to 600W PS/2 ATX Power Supply (Optional 80PLUS)
- Mini-Redundant Power Supply

Cooling System

- Two 8cm ball bearing fans

Switches

- ### ● On/Off Switch and Reset Switch

Indicators

- ### ● Power On/Off LED and HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

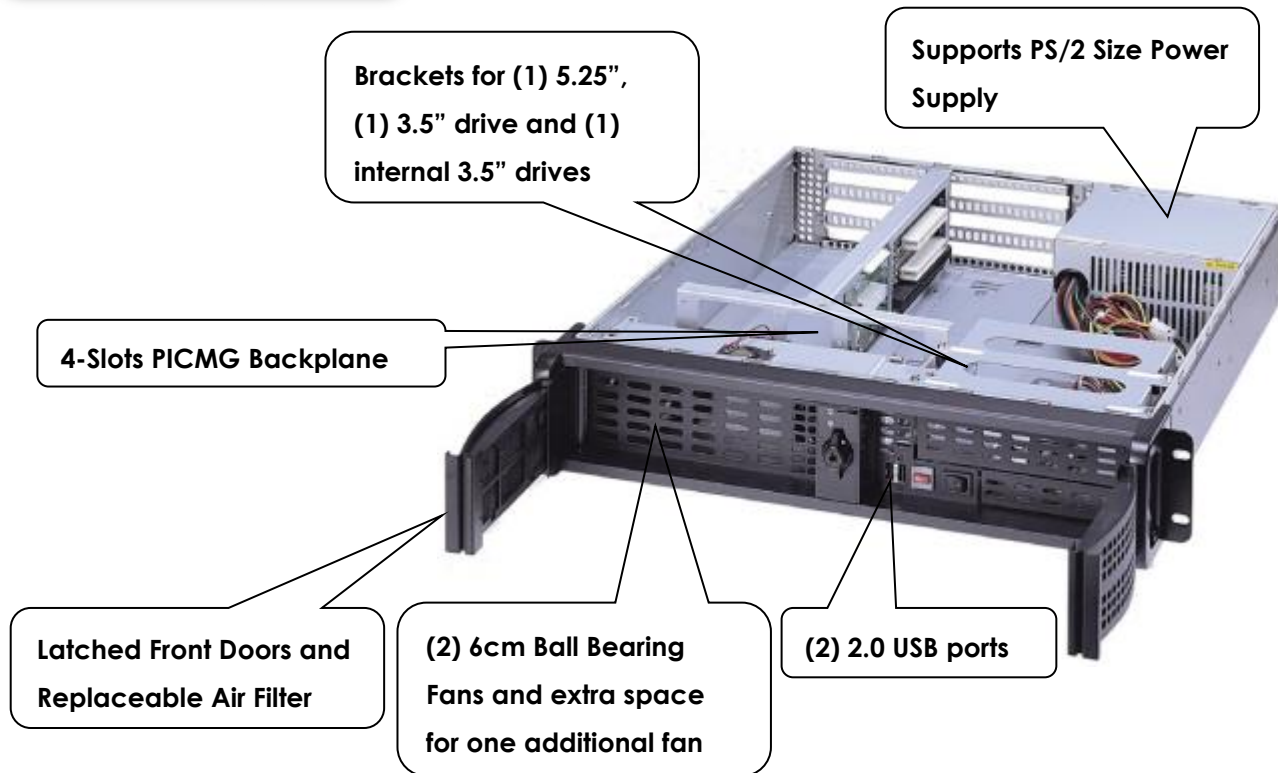
- 0~45 °C

Net/Gross Weight

- 7.4Kg/10Kg

Ordering Information

RCK-203BR	2U chassis with (3) drive bay
RCK-203BR -0604P-400W	2U chassis with (1) PICMG & (4) PCI slots backplane and 400W ATX PFC power supply
RCK-203BR -0604P-600W	2U chassis with (1) PICMG & (4) PCI slots backplane and 600W ATX PFC power supply
RCK-203BR -0502P-400W	2U chassis with (1) PICMG1.3 & (1) PCIe x16, (1) PCIe x4 and (2) PCI, 400W ATX PFC power Supply
RCK-203BR	2U chassis with (1) PICMG1.3



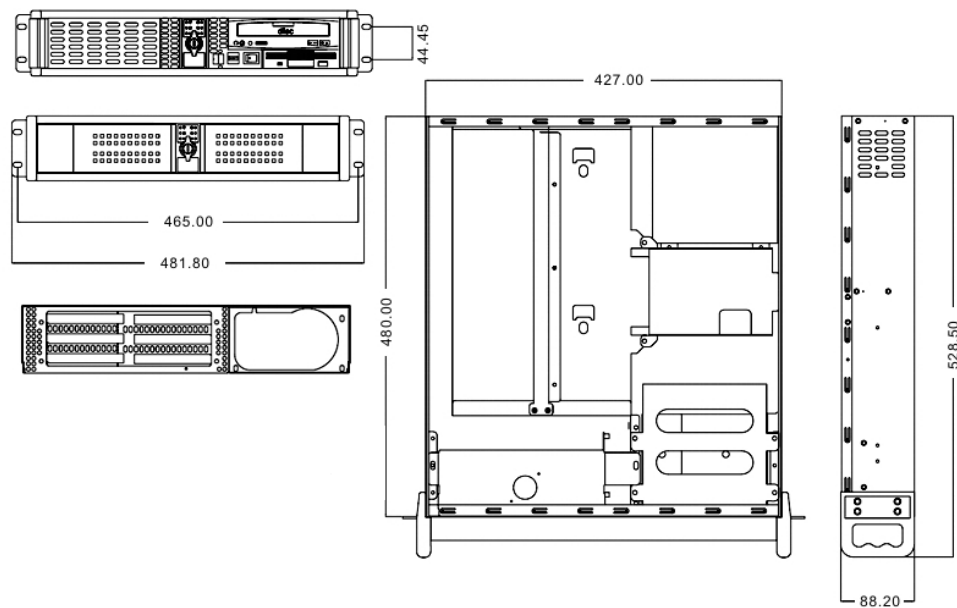
Introduction

The **RCK-203BA** 2U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using Full Size SBC through a (4) slot PICMG butterfly backplane. **RCK-203BA** offers one 5.25" and two 3.5" shock resistive drive bays. Two levels temperature management relies on two ball bearing 6cm fan that provide excellent cooling and System Environmental Monitor that warns users when the system temperature is above normal. One extra space for optional additional fan is provided for more heat sensitive application. **RCK-203BA** offers two 2.0 USB ports and supports standard PS/2 ATX Power Supplies

Features

- Standard 2U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating
- Lockable front doors with air filter to protect drives
- 5.25", (1) 3.5" FDD, (1) 3.5" internal HDD drive bays with shock-resistant drive brackets
- Two USB 2.0 ports on front panel
- Supports PICMG 1.0/1.3 Full Size SBC
- PICMG 1.0 Backplane with (4) PCI slots
- PICMG 1.3 Backplane with (2) PCIe x1, (1) PCIe x16 and (1) PCI
- Supports Full Length PCI Expansion
- System Environmental Monitor
- Extra space for one additional 6cm fan

Mechanical Drawing



Construction

- Zinc-Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- Full Size SBC

Drive Bays

- 5.25" and (1) 3.5" external drives and (1) 3.5" internal drives

Expansion

- 4-slots PICMG 1.0/1.3 butterfly backplane

Power Supply

- Supports PS/2 size power supply

Cooling System

- (2) 6 cm and one extra space for additional fan
- Environmental monitoring board.

Ports

- (2) USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- LED for Power ON/OFF, HDD, Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 88.2 (H) mm
- 16.8 (W) x 18.9 (D) x 3.5 (H) inches

Operating Temperature

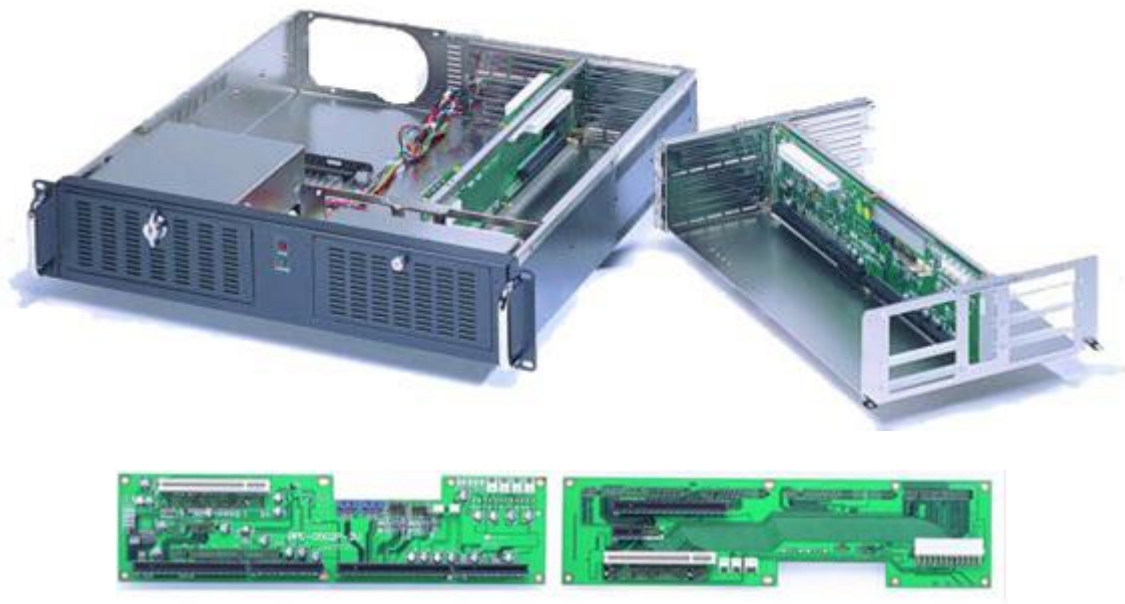
- 0~55 °C

Net/Gross Weight

- 8.4Kg/12Kg

Ordering Information

RCK-203BA -0604PA	2U chassis for ATX motherboard with (1) 5.25", (1) 3.5" FDD, (1) 3.5" Internal drive bays and 4 PCI slot PICMG backplane
RCK-203BA -0604PA-400W	RCK-203BA with 400W ATX PS/2 power and 4 PCI slot PICMG backplane
RCK-203BA- 501P	2U Chassis with PICMG1.3 butterfly backplane and without power
RCK-203BA -501P-400W	2U Chassis with PICMG1.3 butterfly backplane and 400W PS/2 power
MT-SR01	Optional slide rail for RCK-203BA



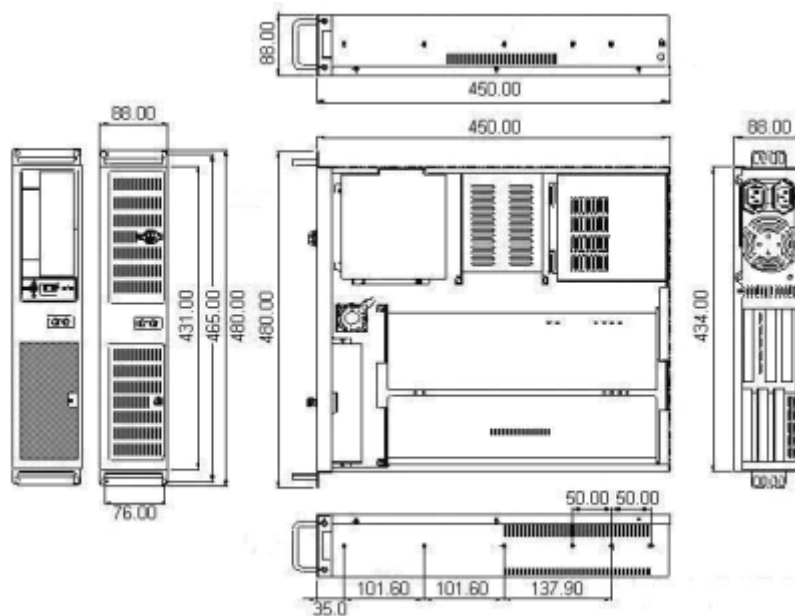
Introduction

The **RCK-203BE** is the first and only 2U chassis that supports System Host Board (SHB) through 2U PICMG 1.3 butterfly backplane **BPE-0502P**. The backplane also supports (1) PCIe x16 slot, (1) PCIe x4 slot, and (2) PCI 32 bit 5V slots to configure additional expansions. The chassis boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where depth can make or break a project. The **RCK-203BE** supports up to three drive bays: (1) 5.25" CD/DVD-ROM, (1) 3.5" FDD, and (1) "hidden" internal 3.5" HDD. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-203BE** provides a robust solution to any server application using System Host Board (SHB) while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- 5.25" CD-ROM/DVD-ROM bay, (1) 3.5" FDD bay, and (1) Internal 3.5" HDD bay
- BPE-0502P 2U PICMG 1.3 backplane supports Full Size System Host Board, expandable through (1) PCIe x16 slot, (1) PCIe x4 slot, and (2) PCI 32 bit 5V slots
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- 8cm High-speed Ball Bearing Fans for Better Ventilation
- 400W PS2 Auto-switch ATX Power Supply with PFC

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- Full Size Single Host Board (SHB)

Drive Bays

- 5.25", (1) 3.5" external drives, and (1) 3.5" internal drives

Expansion

- 2U PICMG 1.3 butterfly backplane with (1) PICMG ver. 1.3 RC1.0 SHB slot, (1) PCIe x16 slot, (1) PCIe x4 slot, and (2) PCI slots

Power Supply

- 400W PS/2 ATX power supply with PFC

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- (1) front panel PS/2 port for keyboard/mouse

Switches

- On/Off Switch and Reset Switch

Indicators

- power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

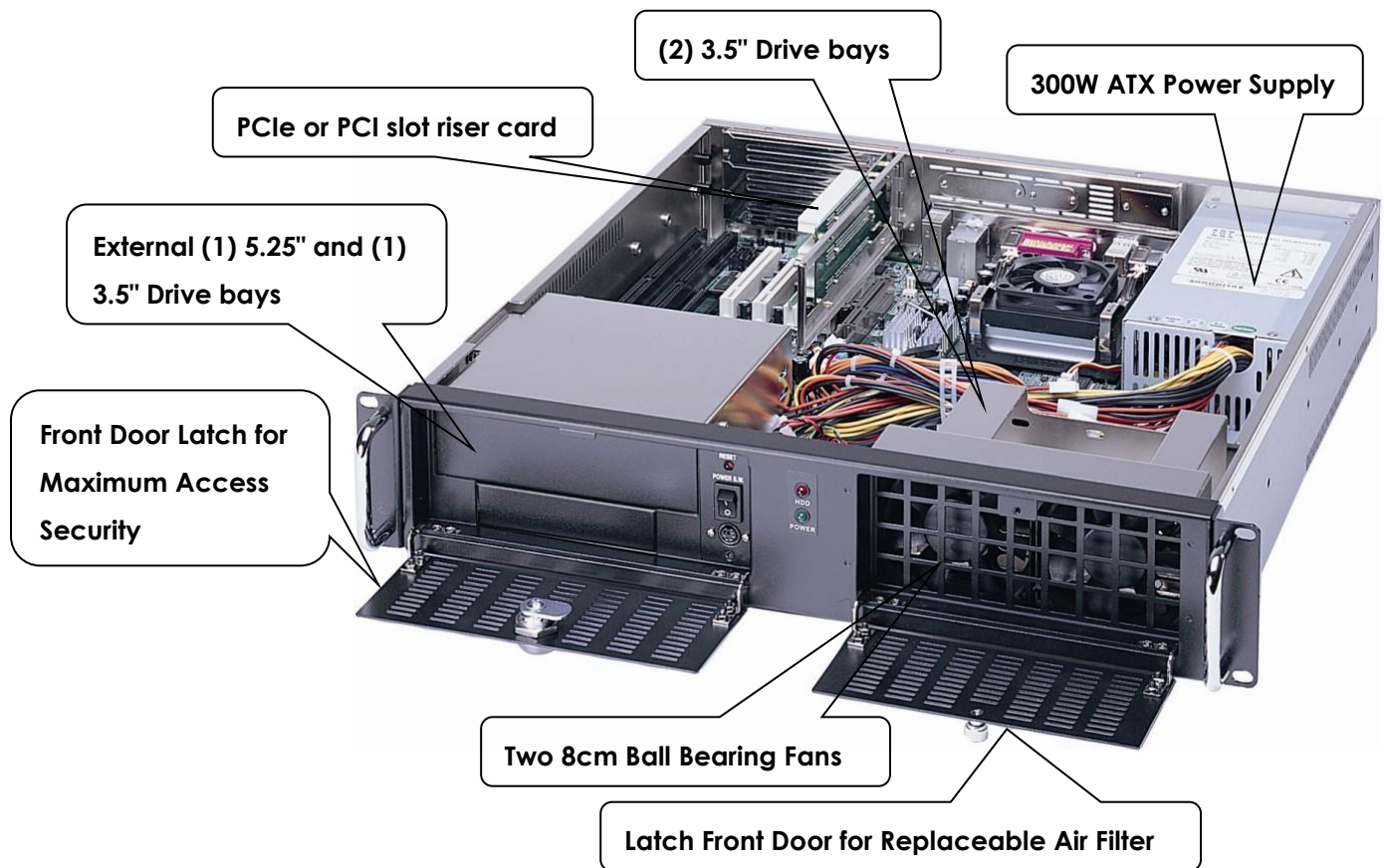
- 0~55 °C

Gross Weight

- 10.2kg

Ordering Information

RCK-203BE	RCK-203BE with BPE-0502P
-0502P	backplane
RCK-203BE	RCK-203BE with BPE-0502P
-0502P-400W	backplane and 400W Auto-Switch ATX PS/2 power supply with PFC
SR-120	Slide Rail



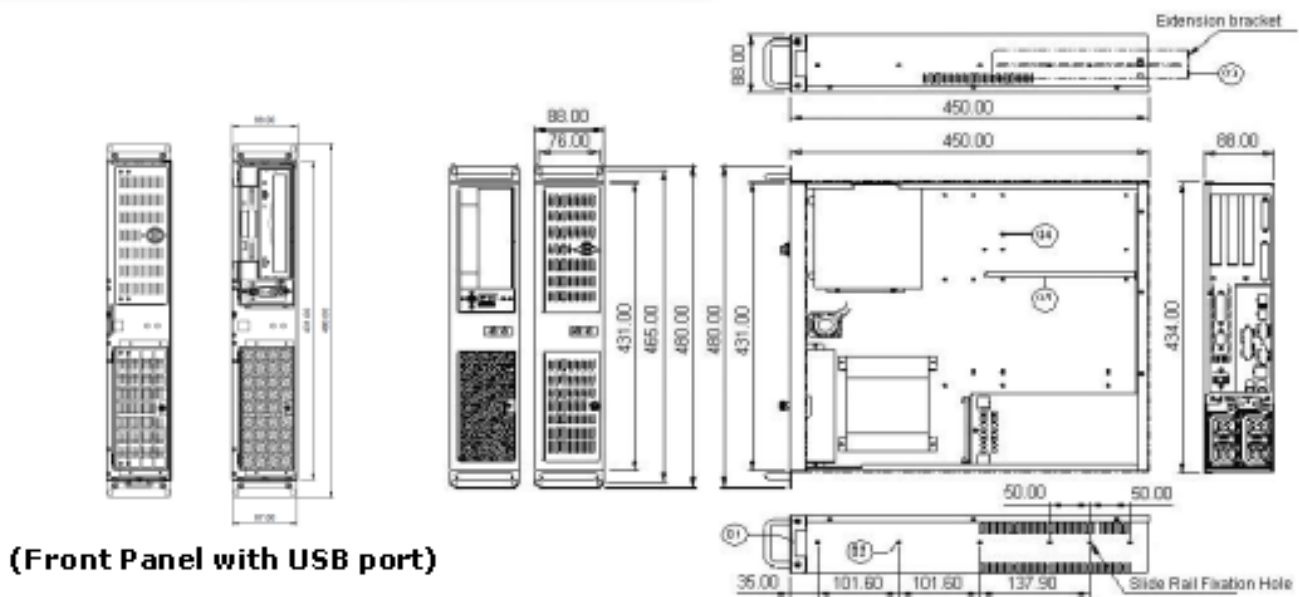
Introduction

The **RCK-204M** is a 2U Rackmount chassis that boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where the chassis depth can make or break a project. Equipped to handle ATX motherboards or Dual CPU server boards, the **RCK-204M** proves to be a perfect choice for all ISP or Telecom applications. Exceeding the drive capacity of most 2U chassis, the **RCK-204M** can support up to four drive bays, one 5.25" CD/DVD, (1) 3.5" FDD, and (2) "hidden" internal 3.5" bays. A PCI riser card can be used with up to (3) PCI slots for additional peripherals. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-204M** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- Supports ATX Motherboard or Dual CPU Server Board
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- Front Access to PS/2 Keyboard Connector
- (2) 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- **300W** ATX Auto-switch Power Supply

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- ATX Motherboard (12"x9")

Drive Bays

- (1) 5.25" + (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- (3) 32-bit PCI slot through riser card
Or (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 2U 300W ATX PFC power supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- One front panel PS/2 connector for keyboard/mouse
- Optional USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

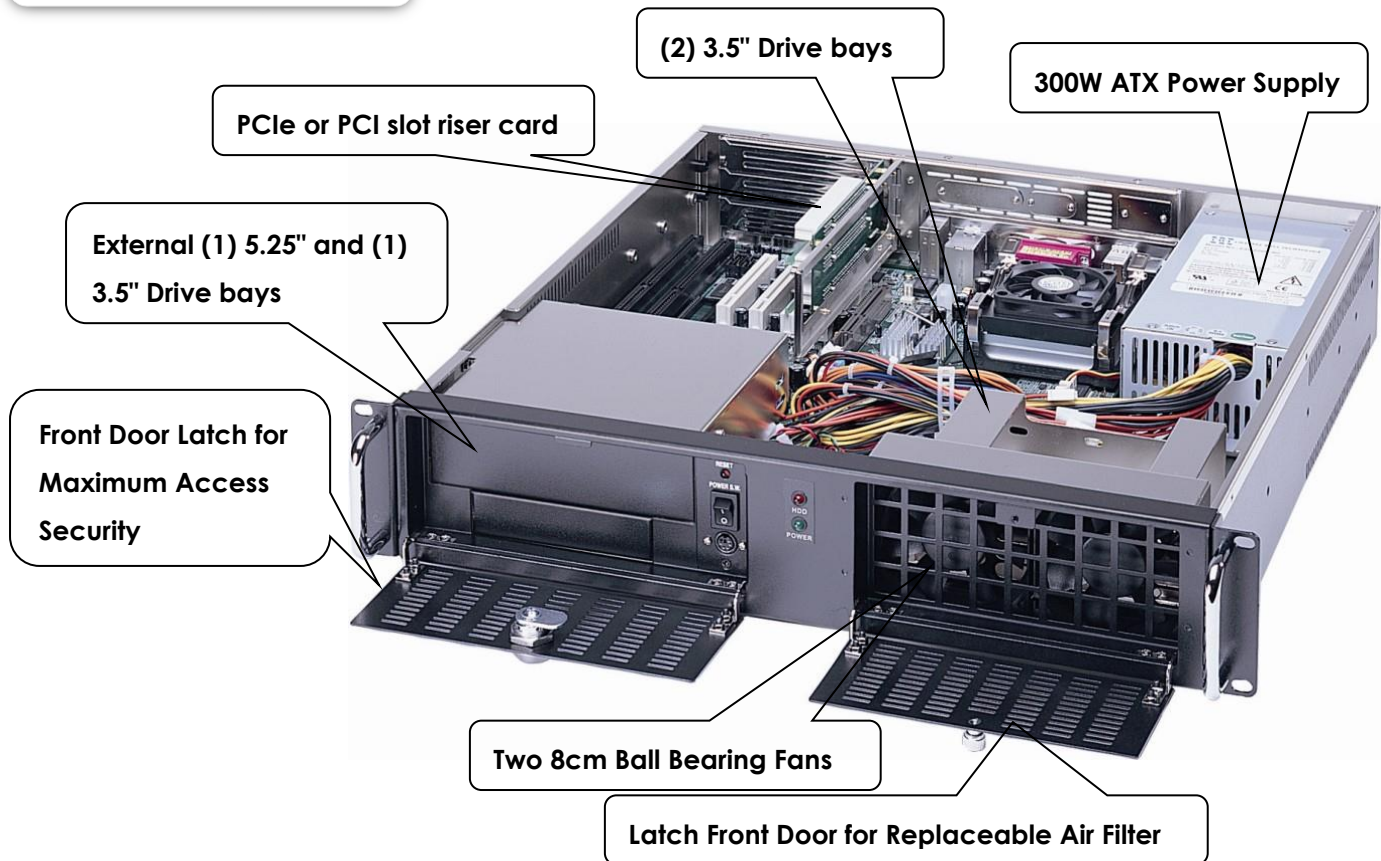
- 0~55 °C

Gross Weight

- 9.4kg

Ordering Information

RCK-204M	2U chassis with (3) PCI riser card (for MBC-4601 only) and 300W ATX PFC power supply
-PCI303-300W	
RCK-204M	RCK-204M with 2U 300W ATX PFC power supply & PCIE-303 riser card (for MBC-4601 only)
-PCIE303-300W	
MT-SR120	Optional Slide Rails



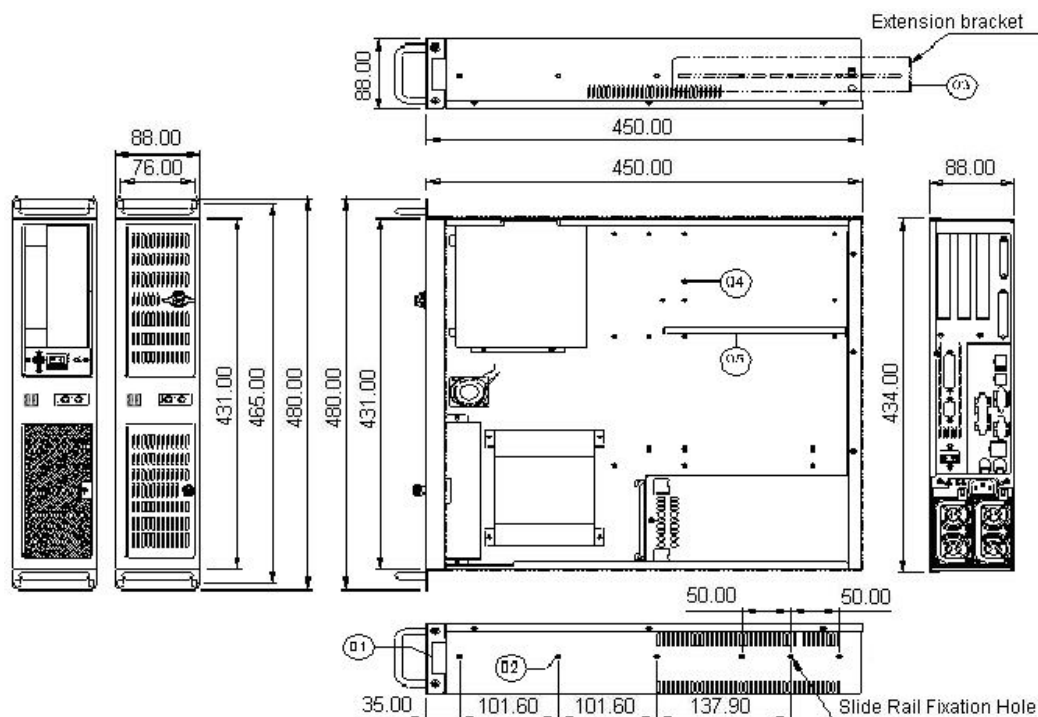
Introduction

The **RCK-204M2** is a 2U Rackmount chassis that boasts a depth of only 450mm (17"), thus providing an ideal solution for those applications where the chassis depth can make or break a project. Equipped to handle ATX motherboards or Dual CPU server boards, the **RCK-204M2** proves to be a perfect choice for all ISP or Telecom applications. Exceeding the drive capacity of most 2U chassis, the **RCK-204M2** can support up to four Drive bays – (1) 5.25" & (1) 3.5" ext. Drive bays, and (2) int. 3.5" Drive bays. A PCI riser card can be used with up to (3) PCI slots for additional peripherals. Two 8cm ball-bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-204M2** provides a robust solution to any server application, while still remaining compact.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy-duty Steel with Ni plating
- Supports ATX Motherboard
- Lockable Front Door for Maximum Access Security and Replaceable Air Filter
- (1) PS/2 connector on front panel
- (2) USB ports on front panel
- (2) 8cm Ball-bearing Fans
- Up to 2U 400W Single or 2U 380W Redundant Power supply
- Optional 18-inch Slide rail

Mechanical Drawing



Construction

- Heavy-duty Steel with Ni plating

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (1) 5.25" & (1) 3.5" external Drive bays, and (2) 3.5" internal Drive bays

Expansion

- (3) 32-bit PCI slot through riser card, or
(2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 2U ~ 500W Single/ ~380W Redundant PSU

Cooling System

- (2) 8cm Fans and Replaceable air filter

Ports

- (1) PS/2 connector on front panel
- (2) USB port on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED and (1) HDD LED

Dimensions (W x D x H)

- 434 x 450 x 88 mm
- 17.1 x 17.7 x 3.47 inches

Operating Temperature

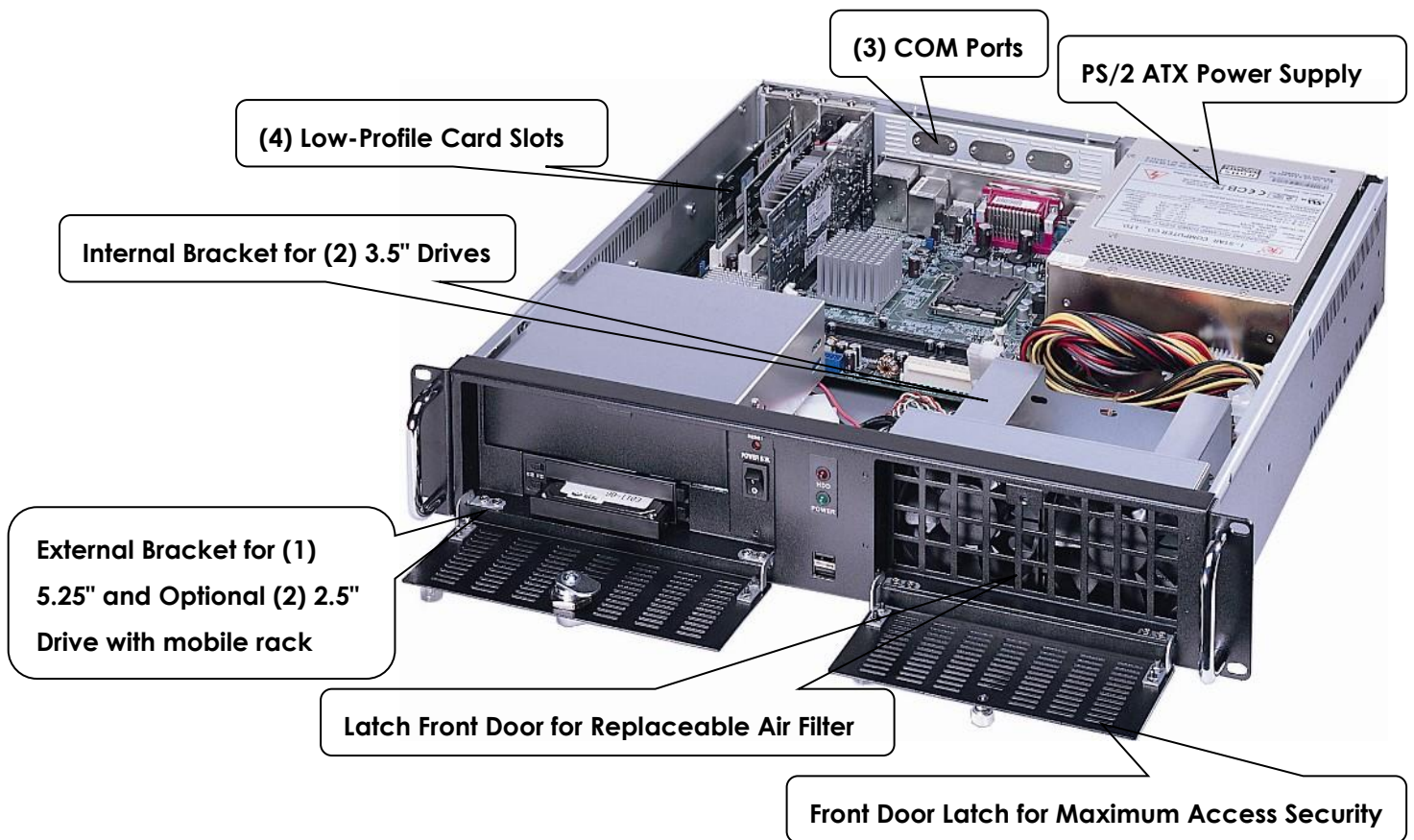
- 0~55 °C

Gross Weight

- 9.4kgs

Ordering Information

RCK-204M2-PCI303-400W	2U chassis with 3 PCI riser card 32bit and 400W PSU
RCK-204M2-PCI303-380WR	2U chassis with 3 PCI riser card 32bit and 380W Redundant PSU
RCK-204M2-PCIE303-400W	2U chassis with PCIE-303 riser card 32bit and 400W PSU
RCK-204M2-PCIE303-380WR	2U chassis w/ PCIE-303 riser card 32bit and 380W Redundant PSU
MT-SR120	Optional 18" Slide rail



Introduction

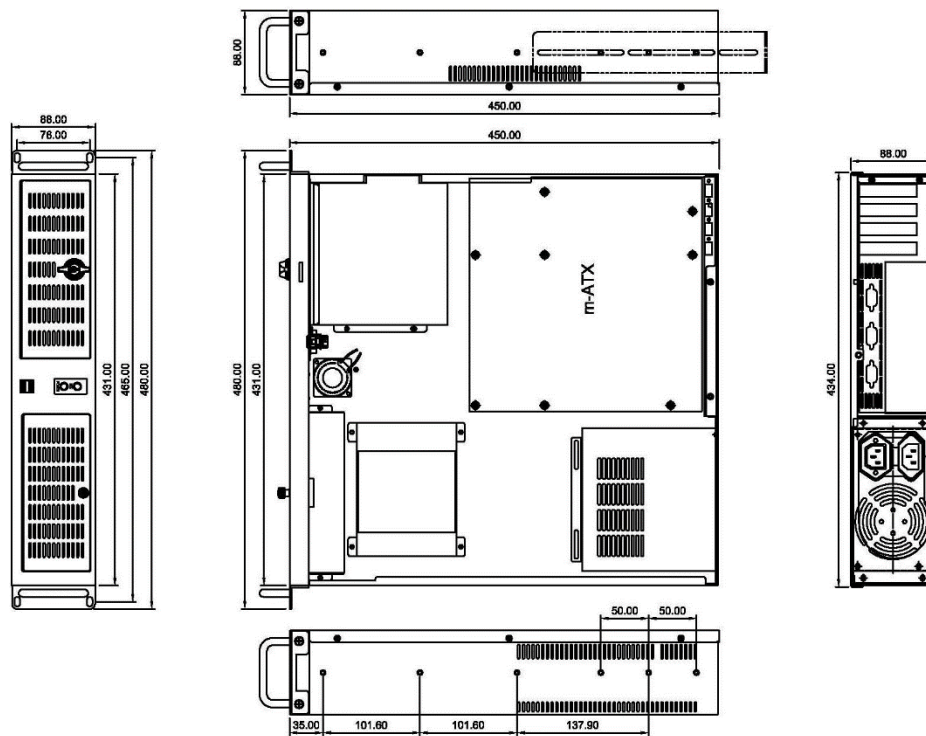
The **RCK-204MR** is a 2U Rackmount chassis which is designed with a depth of 450mm (17") only, thus providing an ideal solution for those applications where the chassis depth can make or break a project. The **RCK-204MR** can fit a PS2 size power supply which is much cheaper compared to the ordinary 2U power supply. As such user can have more flexibility in choosing the power supply for this chassis. The chassis can be integrated with micro ATX motherboards or mini-ITX boards

Exceeding the drive capacity of most 2U chassis, the **RCK-204MR** can support up to (5) drive bay, (4) low-profile PCI slots for additional peripherals. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application.

Features

- EIA RS-310C 19" Rackmount Standard
- Heavy Duty Steel with Ni Plating
- Supports mATX/uATX/Mini-ITX motherboard
- Supports External (2) 2.5" HDD with mobile rack
- Lockable Front Door and Replaceable Air Filter
- Front Access to PS/2 Keyboard Connector
- (2) 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- PS/2 Auto-switch Power Supply

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige

Board Support

- mTAX/uATX/Mini-ITX motherboard

Drive Bays

- External (1) 5.25" + (2) 2.5" with mobile rack
- (2) 3.5" internal drives

Expansion

- (4) Low-Profile Card Slots

Power Supply

- 350W/400W PS/2 Type power Supply (80PLUS & PFC optional), or PS/2 Type Hot Swap Redundant Power Supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- (2) USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450 (D) x 88 (H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

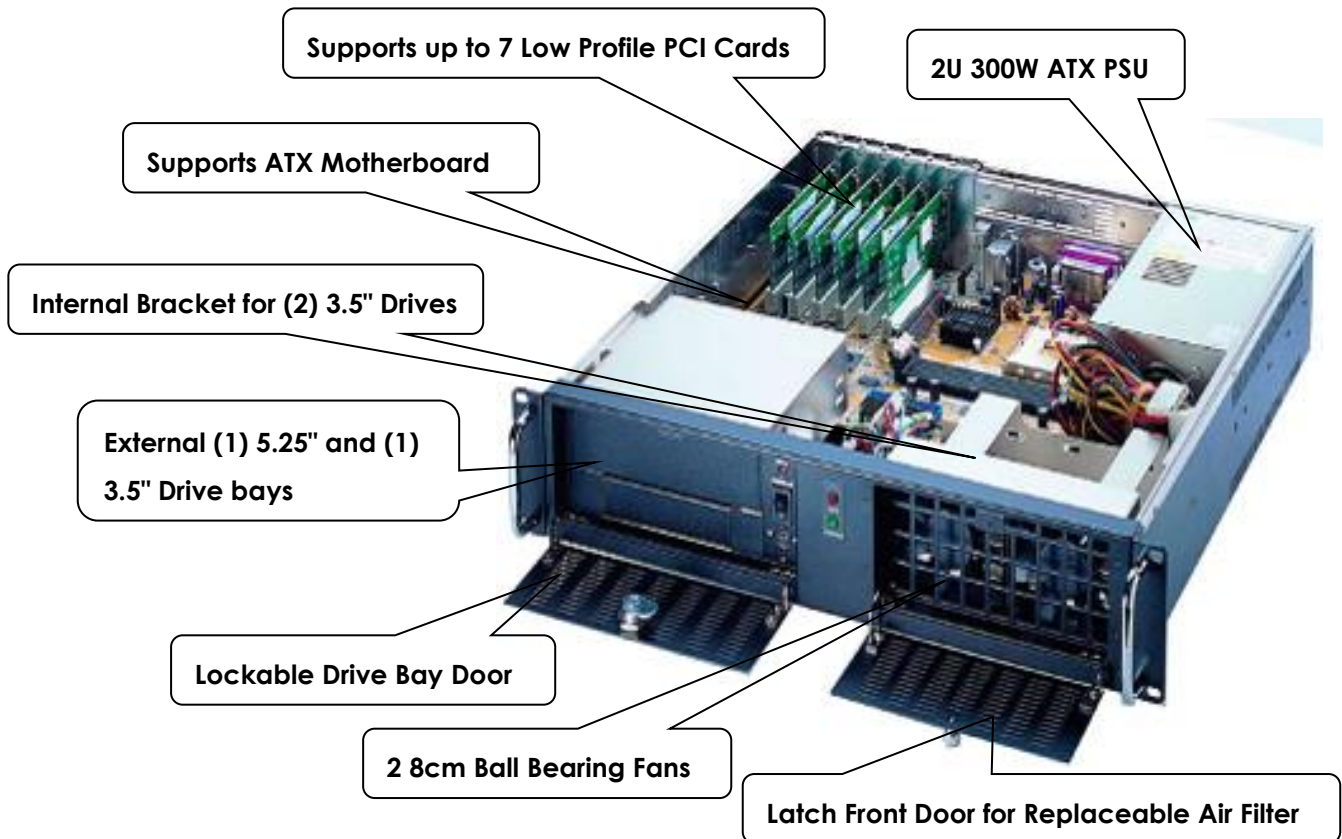
- 0~55 °C

Gross Weight

- 9.4kg

Ordering Information

RCK-204MR -350W	2U chassis supports up to (4) low profile add-on cards and 350W ATX power supply (80 PLUS)
RCK-204MR -400W	2U chassis supports up to (4) low profile add-on cards and 400W ATX power supply
RCK-204MR -400WR	2U chassis supports up to (4) low profile add-on cards and 400W Hot Swap Redundant Power Supply



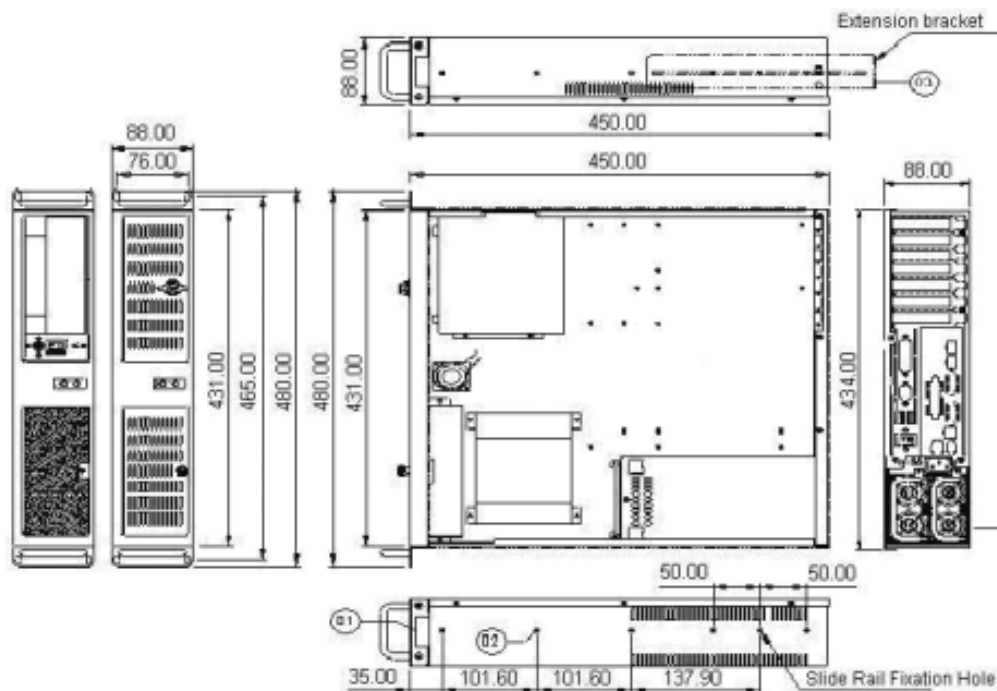
Introduction

The **RCK-204ML** is designed for those who want to utilize the maximum number of slots on their motherboard whilst in the same time keeping the minimum height and size of the chassis. Just like **RCK-204M**, **RCK-204ML** also measuring a depth of only 450mm (17"). Equipped to handle ATX motherboards or Dual CPU server boards and up to 7 pieces of low-profile add-on cards that compliant to the standard set by PCI SIG group, the **RCK-204ML** proves to be a perfect choice for all ISP or Telecom applications. Exceeding the drive capacity of most 2U chassis, the **RCK-204ML** can support up to four drive bays, one 5.25"CD/DVD, (1) 3.5" FDD, and (2) "hidden" internal 3.5" bays. Two 8cm ball bearing fans ensure excellent airflow when faced with a heat sensitive application. The **RCK-204ML** provides a robust solution to any server application, while still remaining compact.

Features

- Heavy Duty Steel with Ni Plating. EIA RS-310C 19" Rackmount Standard only 450mm deep
- Supports ATX Motherboard or Dual CPU Server Board
- Supports up to 7 low-profile add-on cards compliant to PCI SIG standard
- Slide Rail Applicable
- Lockable Front Door and Replaceable Air Filter
- Front Access to PS/2 Keyboard Connector
- 2 x 8cm Replaceable High-speed Ball Bearing Fans for Better Ventilation
- 2U 300W ATX Auto-switch Power Supply

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige(RAL7035)

Board Support

- ATX Motherboard

Drive Bays

- 5.25" and (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- Supports up to (7) Low Profile PCI SIG Cards

Power Supply

- 2U 300W ATX power supply

Cooling System

- (2) 8 cm ball bearing fans and replaceable air filter

Ports

- Front panel PS/2 port for keyboard/mouse

Switches

- On/Off Switch and Reset Switch

Indicators

- Power on/off LED and (1) HDD LED

Dimensions

- 434 (W) x 450(D) x 88(H) mm
- 17.1 (W) x 17.7 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

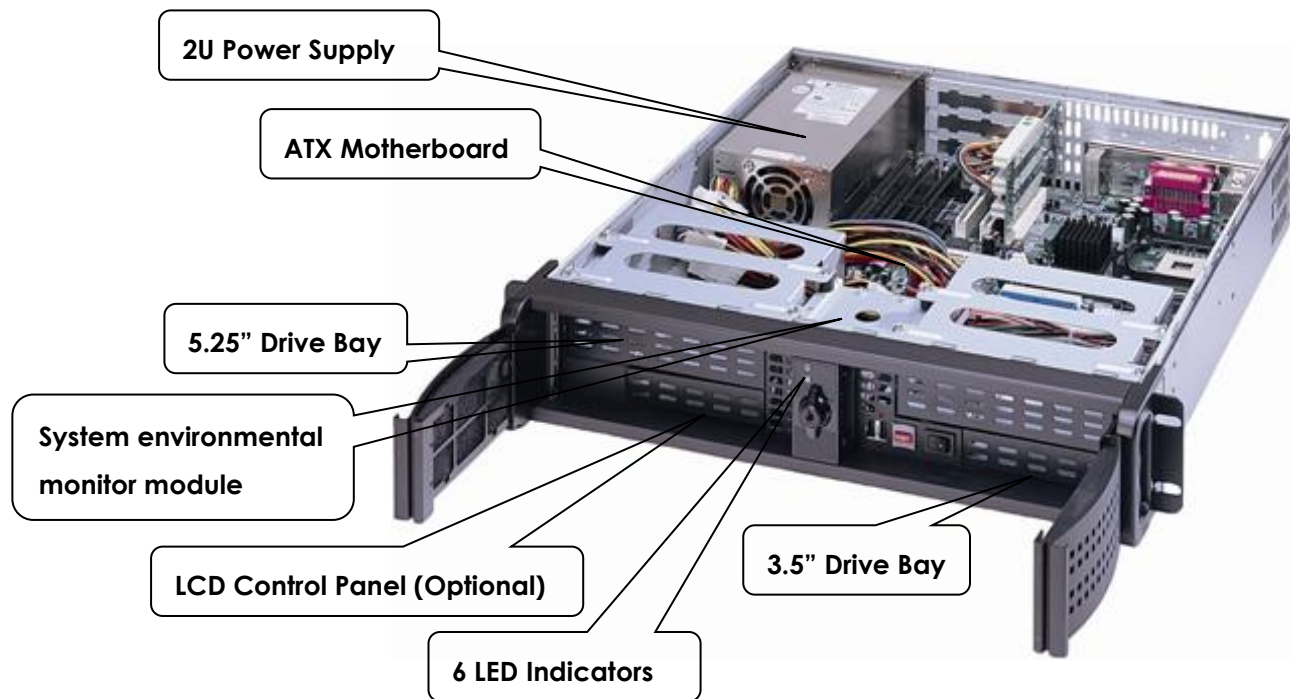
Gross Weight

- 9.4kg

Ordering Information

RCK-204ML-300W	2U chassis supports up to 7 low profile add-on cards and 300W ATX 2U power supply (PFC optional).
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2U chassis supports up to 7
low profile add-on cards and
300W ATX 2U power supply
(PFC optional).



Introduction

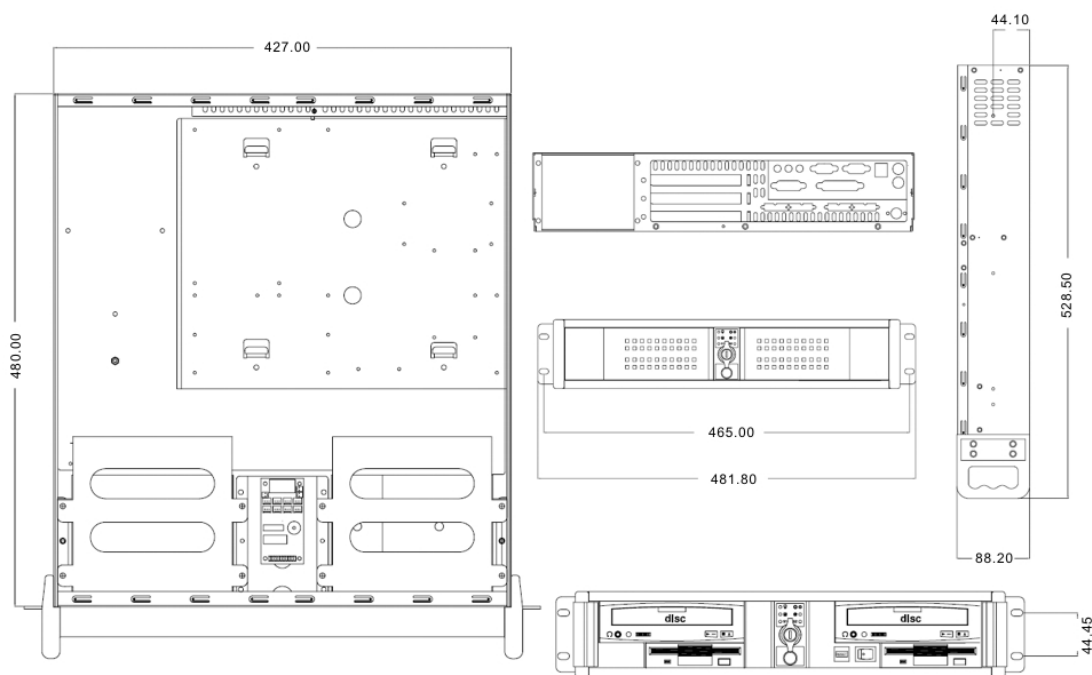
The **RCK-204MA** is a new designed 2U chassis for motherboard with high density driver bays. It is constructed of heavy duty steel and supports standard ATX motherboards. It can accommodate two 3.5" Floppy drives and two 5.25" external driver bays.

Besides, **RCK-204MA** has a built in "system monitoring boards" to monitor the status of the system. The users can easily trace the status of the system by viewing the LED at the front panel of the chassis.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- Supports standard ATX motherboard
- Built-in environment monitoring control board
- Dual lockable front doors and replaceable air filters.
- 6 LED indicators to monitor the system

Mechanical Drawing



Construction

- Heavy-Duty Steel SECC 1.2t

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (2) 3.5" and (2) 5.25 external drive bays

Expansion

- (3) 32-bit PCI slot through riser card

Power Supply

- 300W/380W 2U ATX power supply

Cooling System

- Replaceable air filter, and Fan monitoring circuit board

Ports

- Optional USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- power & HDD & temperature sensor LED

Dimensions

- 427(W) x 480(D) x 88.2(H) mm
- 16.8 (W) x 18.9 (D) x 3.5 (H) inches

Operating Temperature

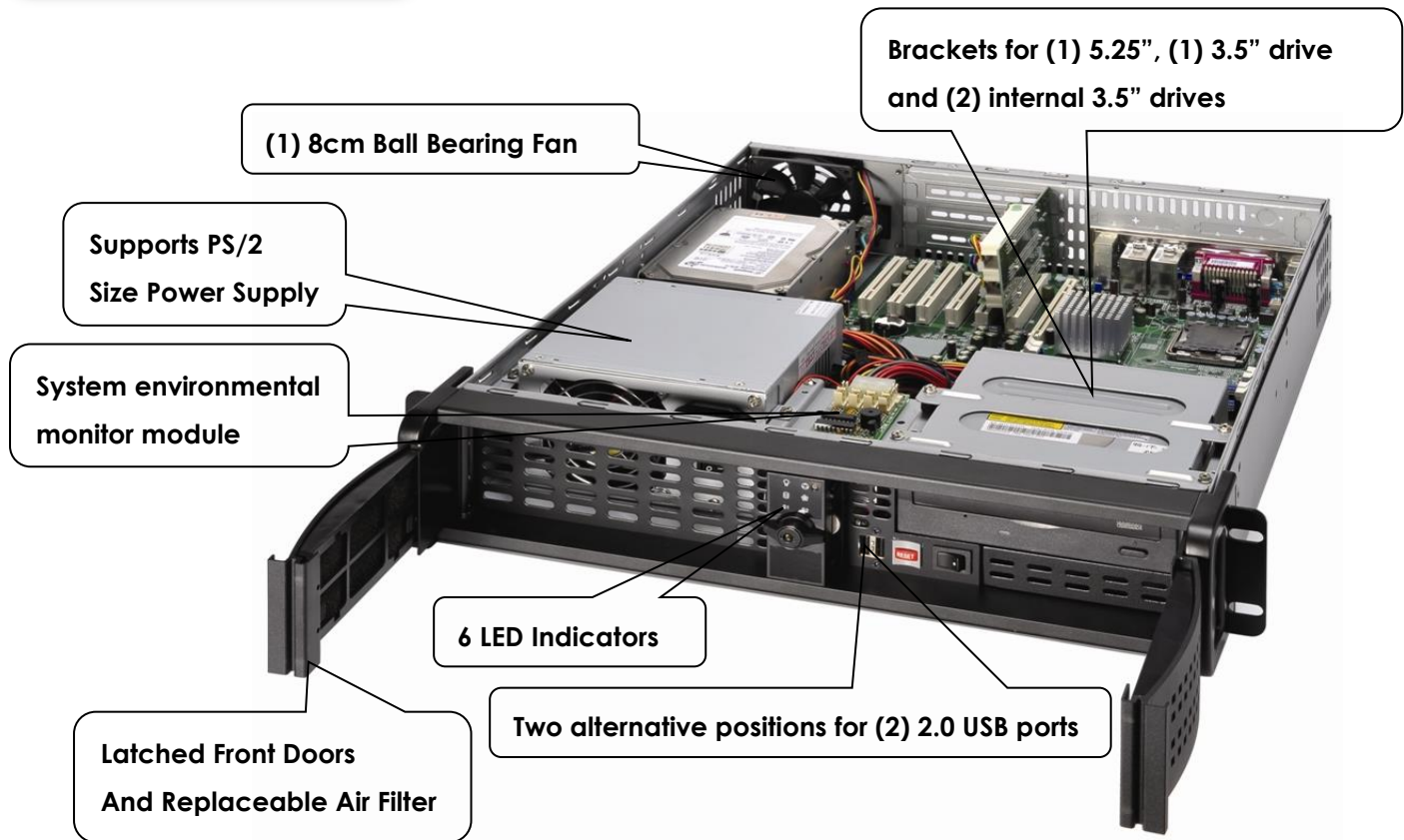
- 0~55 °C

Gross Weight

- 11kg

Ordering Information

RCK-204MA-300W	RCK-204MA with PCI riser card, environmental monitor board and 300W Active PFC ATX PSU
RCK-204MA-380W	RCK-204MA with PCI riser card, environmental monitor board and 380W Active PFC ATX PSU
MT-SR01	18" Rack sliders



Introduction

The **RCK-204MF** is a new designed 2U chassis for motherboard with high density driver bays. It supports standard PS/2 power supplies and ATX motherboards.

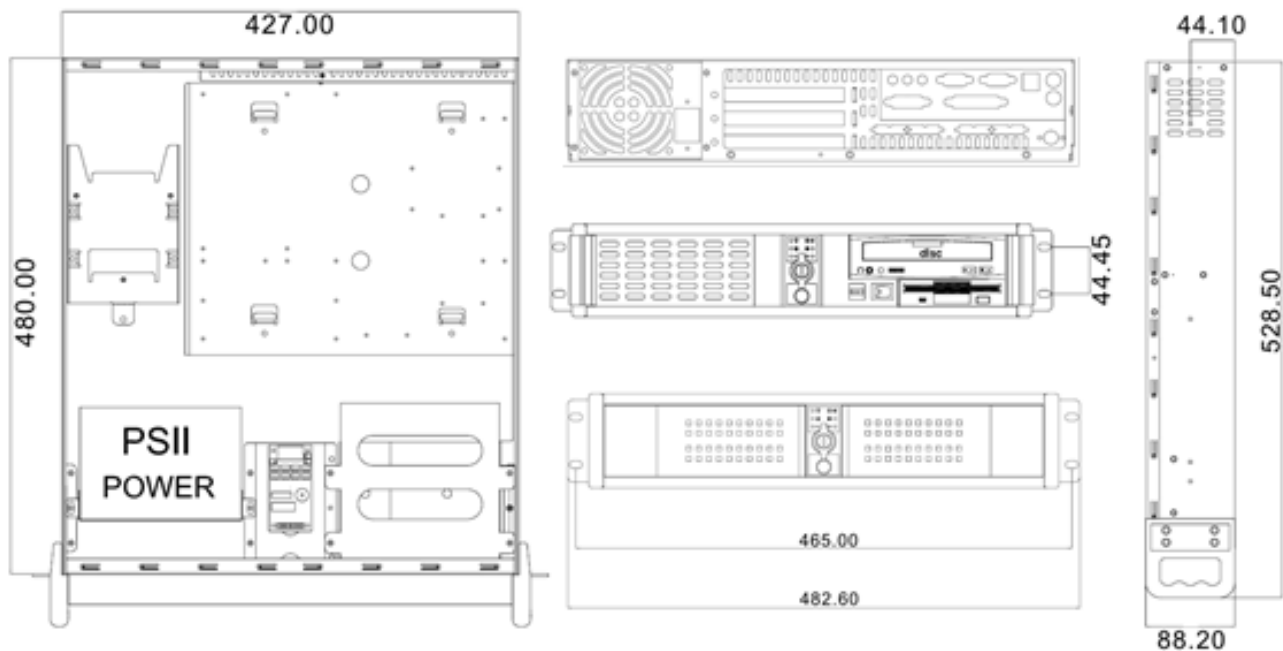
RCK-204MF offers one 5.25" and three 3.5" drive bays for large capacity storage that meets the demand for data server, NAS, DVR or multimedia stream servers.

Besides, **RCK-204MF** has a built in "system monitoring boards" to monitor the status of the system. The users can easily trace the status of the system by viewing the LED at the front panel of the chassis.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- Supports standard ATX motherboard
- Supports PS/2 Size Power Supply
- Built-in environment monitoring control board
- Dual lockable front doors and replaceable air filters.
- 6 LED indicators to monitor the system

Mechanical Drawing



Construction

- 1.2t SECC Zinc-Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (1) 5.25" and (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- (3) PCI slots through riser card

Power Supply

- PS/2 size ATX power supply

Cooling System

- (1) 8 cm ball bearing
- System environment monitoring board

Ports

- (2) USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power on/off, fan, HD, system alarm LED

Dimensions

- 427 (W) x 480 (D) x 88.2 (H) mm
- 16.8 (W) x 18.9 (D) x 3.5 (H) inches

Operating Temperature

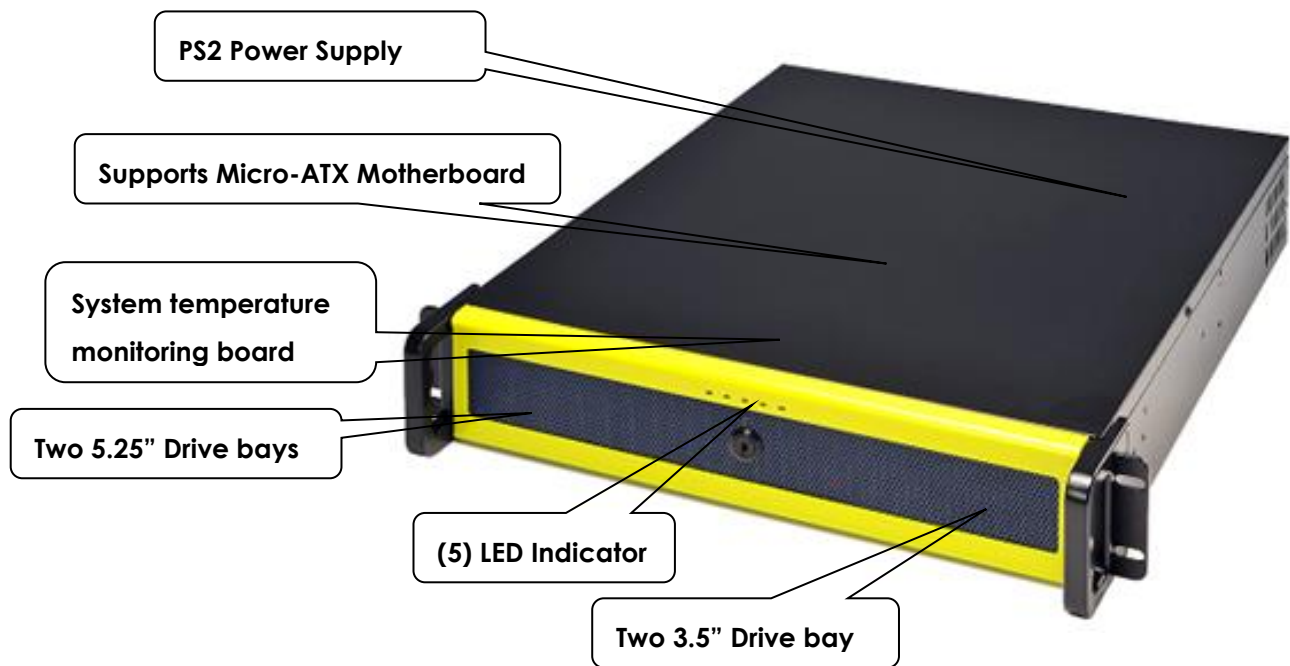
- 0~55 °C

Gross Weight

- 12kg

Ordering Information

RCK-204MF-400W	2U chassis with 400W PS/2 power supply (PFC optional).
RCK-204MF-600W	2U chassis with 600W PS/2 power supply (PFC optional)
MT-SR01	Optional slide rail



Introduction

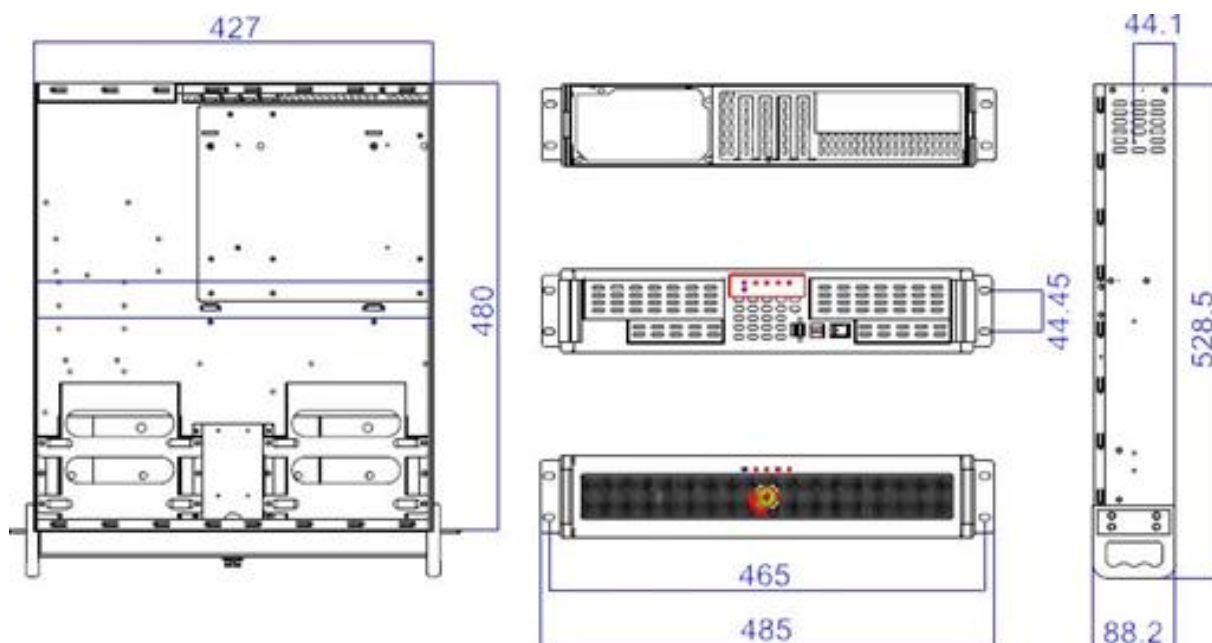
The **RCK-204MT** is a new designed 2U chassis for motherboard with high density driver bays. It is constructed of heavy duty steel and supports standard Micro-ATX motherboards. It can accommodate two 3.5" and two 5.25" external Drive bays.

Besides, **RCK-204MT** has a built-in "system monitoring board" to let users easily monitoring the System status by viewing the LED at the front panel of the chassis. The front door can be customized with your own color and logo, allowing you to differentiate your offering from your competitors.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- Micro-ATX motherboard
- Built-in Temperature monitoring board
- Single front door with Lockable door and option for customized Color
- Front (5) LED indicator to monitor System power, HDD activity, Fans and Heat sensors

Mechanical Drawing



Construction

- Heavy-Duty Steel SECC 1.2t

Color

- Black

Board Support

- Micro-ATX Motherboard

Drive Bays

- (2) 3.5" and (2) 5.25 external Drive bays

Expansion

- (4) Low-profile Add-on cards

Power Supply

- 400W/600W PS2 Power supply

Cooling System

- With System temperature monitor board

Ports

- (2) USB 2.0 ports on front panel

Switches

- ATX On/Off Switch and Reset Switch

Indicators

- Power, HDD, Fan, S1 and S2 Heat sensor LEDs

Dimensions

- 485(W) x 528.5(D) x 88.2(H) mm
- 19 (W) x 20.8 (D) x 3.4 (H) inches

Operating Temperature

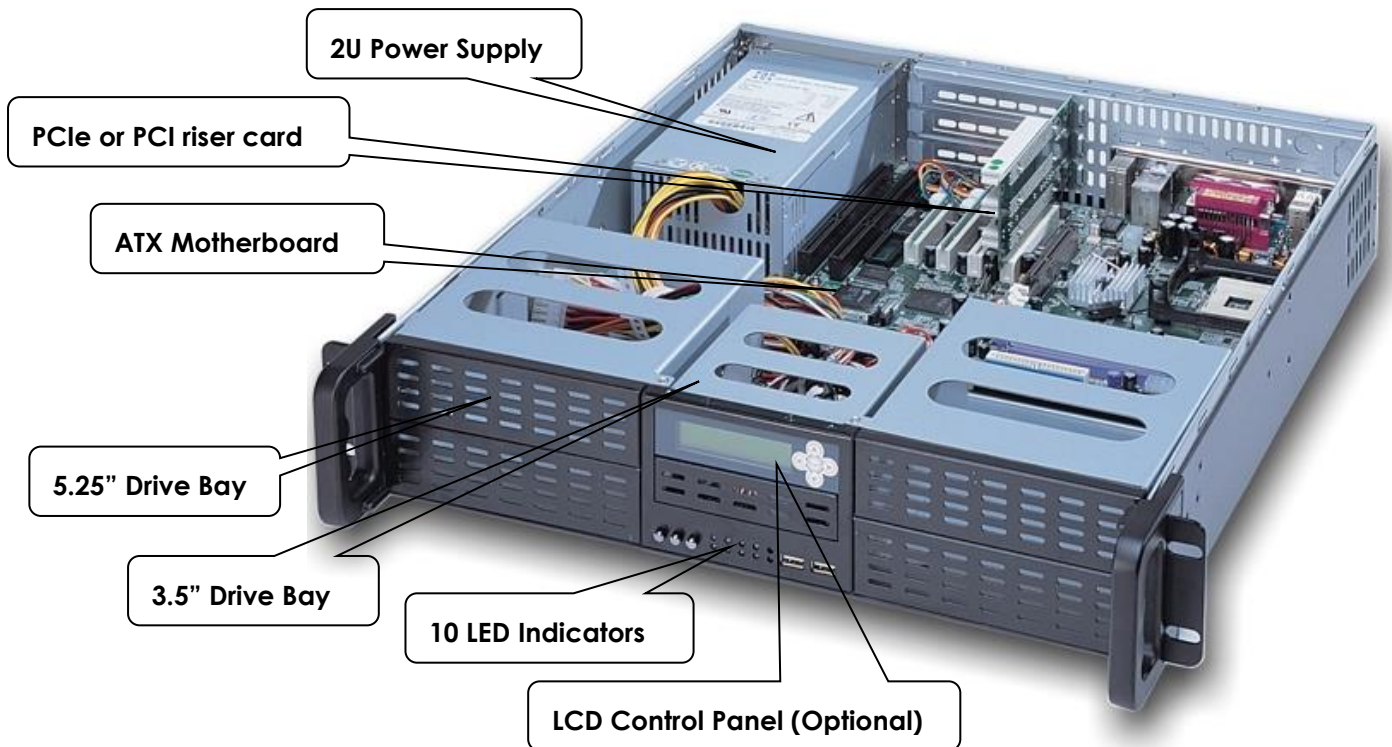
- 0~55 °C

Gross Weight

- 13kg / 28.6lbs

Ordering Information

RCK-204MT-400W	RCK-204MT with Temperature monitor board and 400W ActivePFC ATX PSU
RCK-204MT-600W	RCK-204MT with Temperature monitor board and 600W ActivePFC ATX PSU
MT-SR120	Slide Rail



Introduction

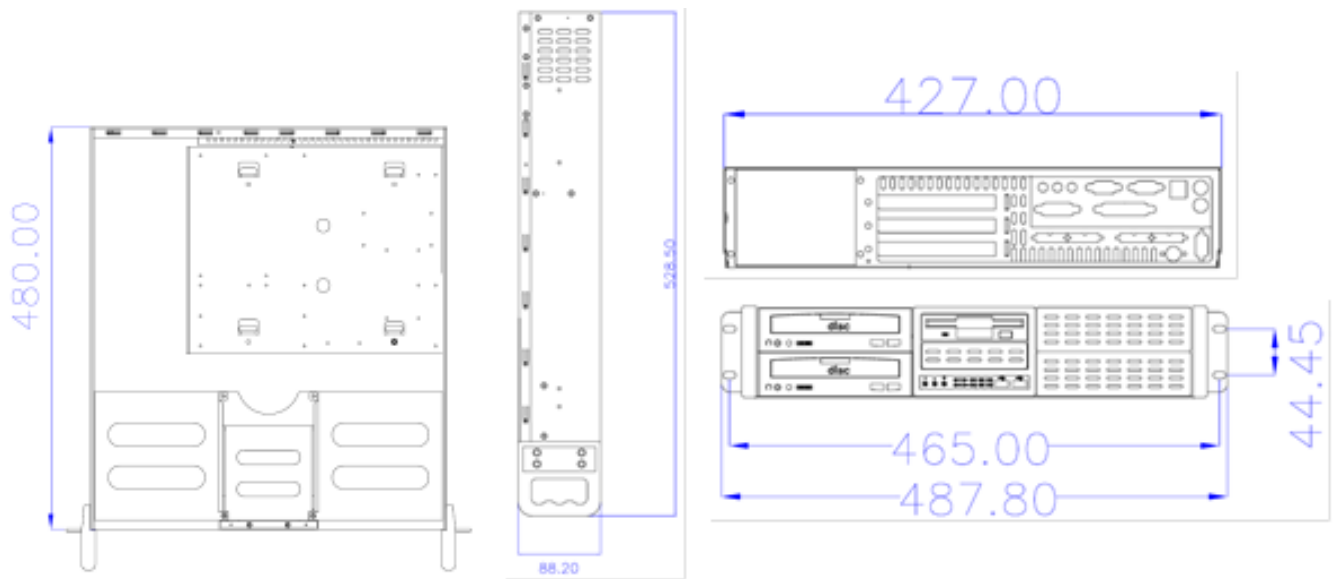
The **RCK-206M** is a new designed 2U chassis for motherboard with high density driver bays. It is constructed of heavy duty steel and supports standard ATX motherboards. Since it is configured for DVR application, it can accommodate two 3.5" Floppy drives and four 5.25" external driver bays.

Besides, **RCK-206M** has a built in "system monitoring boards" to monitor the status of the system. The users can easily trace the status of the system by viewing the LED at the front panel of the chassis.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- 300 Watt 2U power supply with option for 400W Redundant power supply
- Riser card with 3 PCI expansion slots, or one PCIe x16 slot & 2 PCI expansion slots 10 LEDs indicators to monitor the system

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- ATX/ micro-ATX Motherboard

Drive Bays

- (2) 3.5" and (4) 5.25 external drive bays

Expansion

- (3) 32-bit PCI slot through riser card
- Or (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 300W ATX power supply or 400W Hot Swap Redundant power supply

Cooling System

- Built-in (2)Temperature & (8)Fan Detect Board for system environmental monitoring
- Optional 60mm Ball-bearing Fans

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (6) HDD Active LED
- (1) Fan Failure LED
- (2)Temperature Sensor LED

Dimensions

- 427 (W) x 480 (D) x 88.2 (H) mm
- 16.8 (W) x 18.9 (D) x 3.5 (H) inches

Operating Temperature

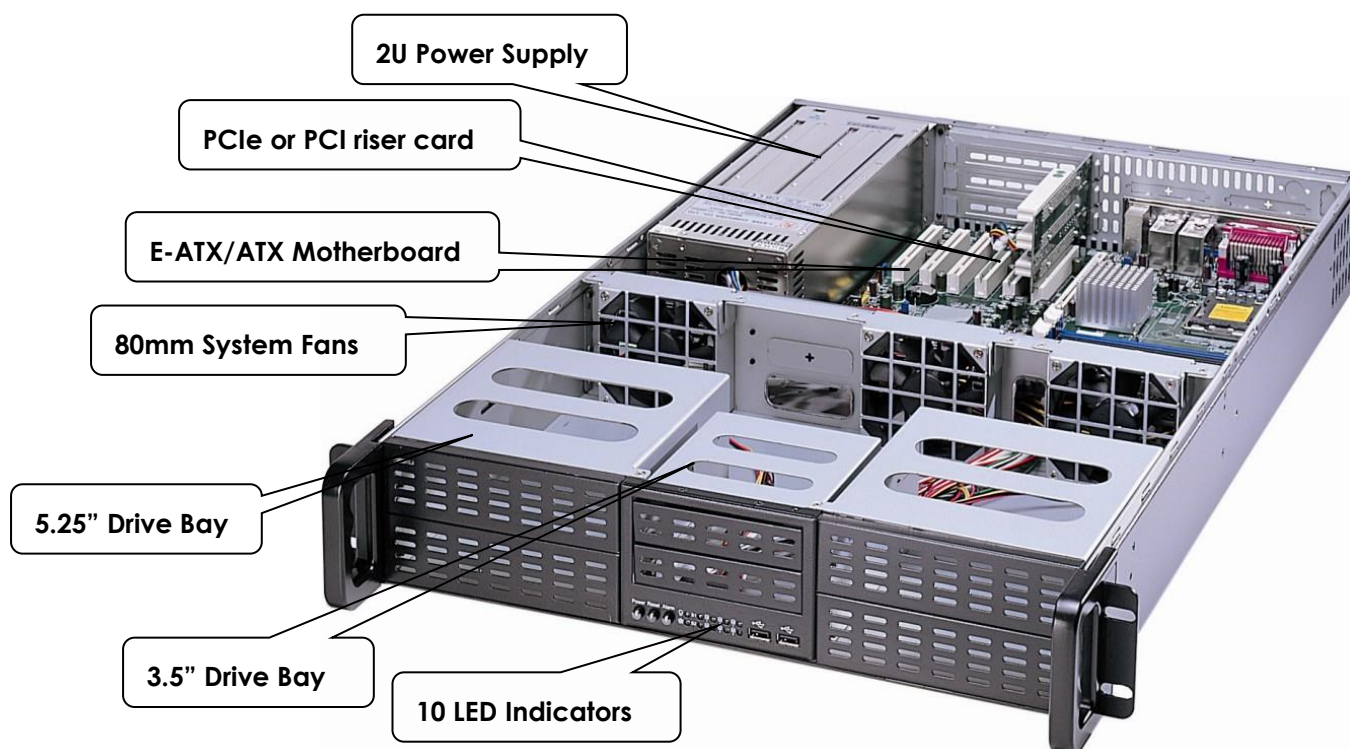
- 0~55 °C

Gross Weight

- 10.9kg

Ordering Information

RCK-206M	RCK-206M with 2U 300W ATX PSU & PCI riser card
-PCI303-300W	
RCK-206M	RCK-206M with 2U 300W ATX power supply & PCIe-303 riser card
-PCIE303-300W	
RCK-206M	RCK-206M with 2U 400W ATX Hot Swap Redundant power supply with Active PFC function
-PCI303-400WR	
PCIE-303	Riser card with (2) 32-bit PCI slot + (1) PCIe x16 slot



Introduction

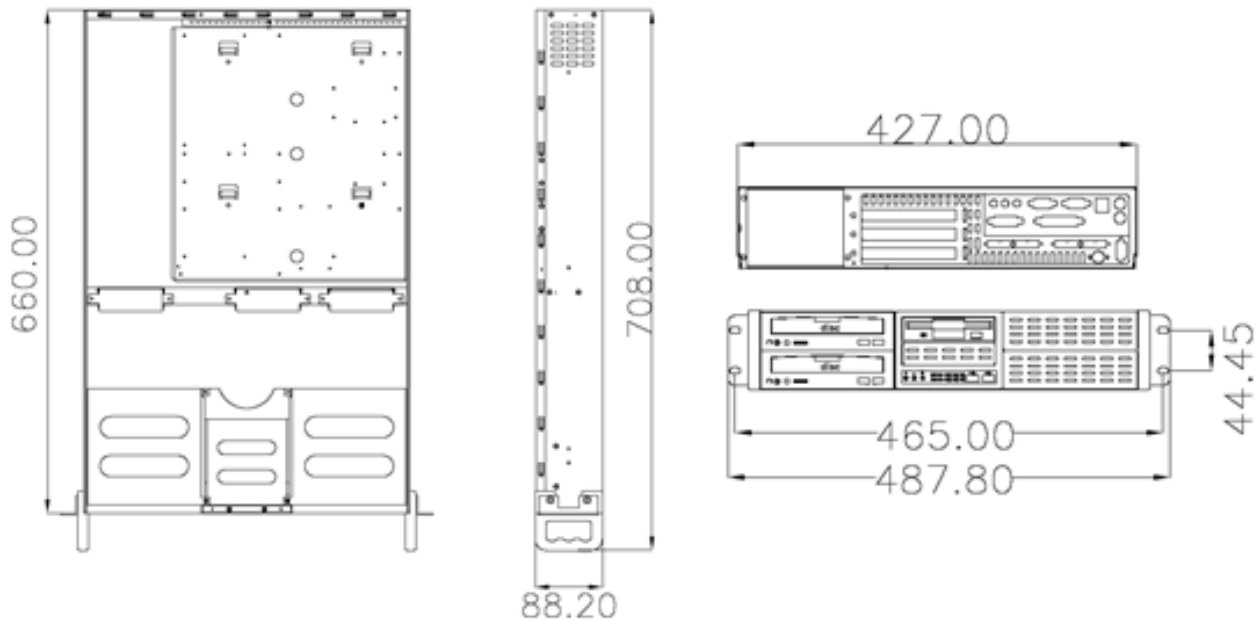
The **RCK-206ME** is a new designed 2U chassis for motherboard with high density driver bays. It is constructed of heavy duty steel and supports extended ATX 12"x13" motherboards. Since it is configured for DVR application, it can accommodate two 3.5" Floppy drives and four 5.25" external driver bays.

Besides, **RCK-206ME** has a built in "system monitoring boards" to monitor the status of the system. The users can easily trace the status of the system by viewing the LED at the front panel of the chassis.

Features

- Standard 2U 19" Rackmount chassis
- Heavy duty steel
- 300 Watt 2U power supply with option for 400W Redundant power supply
- Riser card with 3 PCI expansion slots, or one PCIe x16 slot & 2 PCI expansion slots
- 10 LEDs indicators to monitor the system

Mechanical Drawing



Construction

- Heavy duty steel

Color

- Black

Board Support

- E-ATX, ATX and micro-ATX Motherboard

Drive Bays

- (2) 3.5" and (4) 5.25 external drive bays

Expansion

- (3) 32-bit PCI slot through riser card
- Or (2) 32-bit PCI slot + (1) PCIe x16 slot

Power Supply

- 300W ATX power supply or 400W Hot Swap Redundant power supply

Cooling System

- Built-in (2)Temperature & (8)Fan Detect Board for system environmental monitoring
- (3) 80mm Ball-bearing Fans

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (6) HDD Active LED
- (1) Fan Failure LED
- (2)Temperature Sensor LED

Dimensions

- 427 (W) x 660 (D) x 88.2 (H) mm
- 16.8 (W) x 26.0 (D) x 3.5 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 14kg

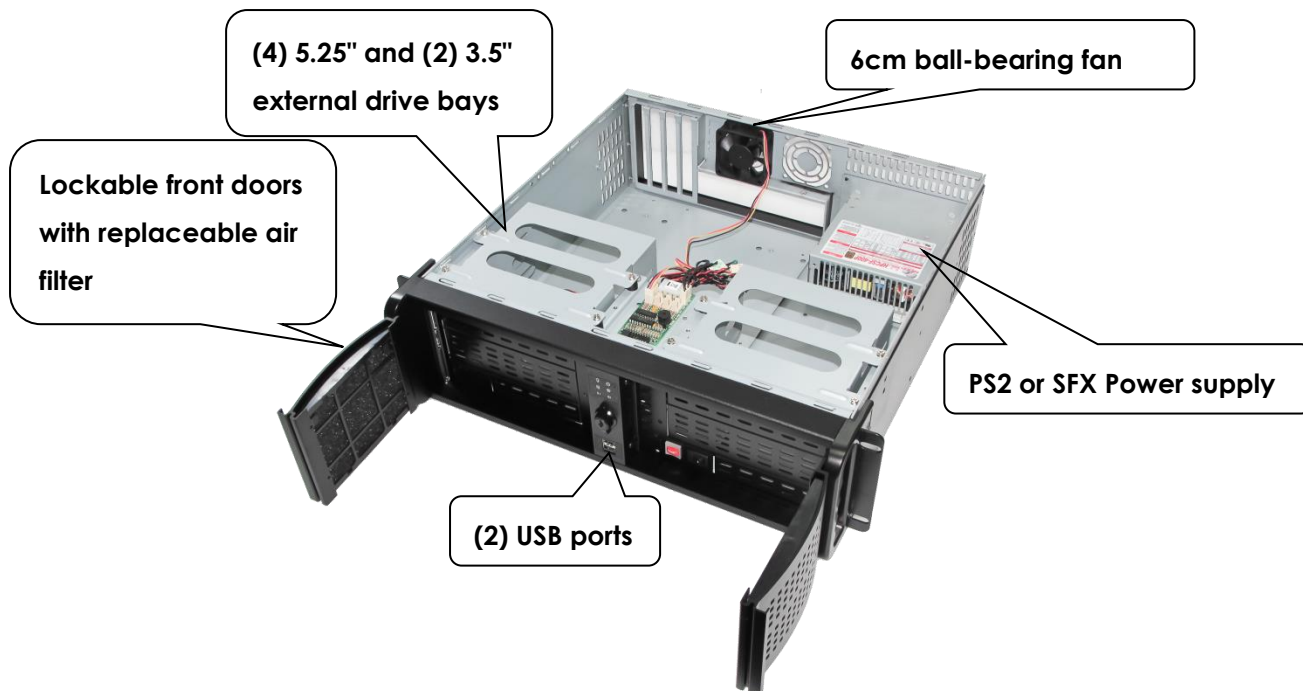
Ordering Information

RCK-206ME	RCK-206ME with 2U 300W ATX power supply & PCI riser card
-PCI303-300W	
RCK-206ME	RCK-206ME with 2U 300W ATX power supply & PCIE-303 riser card
-PCIE303-300W	
RCK-206ME	RCK-206ME with 2U 400W ATX Hot Swap Redundant power supply with Active PFC function
-PCI303-400WR	
PCIE-303	Riser card with (2) 32-bit PCI slot + (1) PCIe x16 slot

3U Ruggedized Industrial Chassis



The Global Choice for Premium Industrial Computer Products



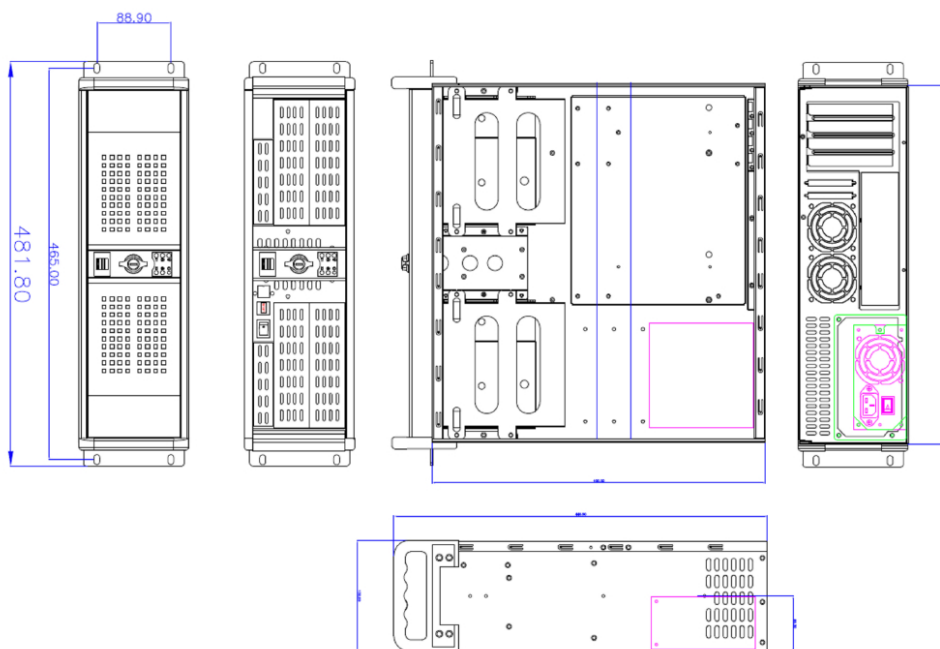
Introduction

The **RCK-306M** is a 3U Rackmount chassis which is designed with a depth of 400mm only, thus providing an ideal solution for those applications where the chassis depth can make or break a project. The **RCK-306M** can fit a PS2 or SFX size power supply which is much cheaper compared to the ordinary 2U power supply. As such user can have more flexibility in choosing the power supply for this chassis. The chassis can be integrated with micro ATX or mini-ITX motherboard. **RCK-306M** supports up to four 5.25" and two 3.5" external drive bays. The **RCK-306M** maintains a balanced internal temperature with an 60mm ball-bearing fan with space for one additional 60mm fan..

Features

- 3U 19" Rackmount chassis
- Heavy-duty steel with Zinc plating
- Built-in temperature monitor board
- Supports microATX or Mini-ITX motherboard
- (4) 5.25" and (2) 3.5" external drive bays
- Dual lockable front door with replaceable air filter
- 6 LED indicators to monitor the system
- (1) 60mm ball-bearing fan, and (1) extra space for additional 60mm fan
- Support PS2 or SFX Power supply

Mechanical Drawing



Construction

- Heavy-coated heavy-duty steel with Aluminum alloy front bezel

Color

- Black

Board Support

- Micro-ATX or Mini-ITX motherboard

Drive Bays

- (4) 5.25" and (2) 3.5" external drive bays

Expansion

- (4) slots for full-size add-on cards

Power Supply

- Support PS2 or SFX power supply

Cooling System

- (1) 6cm fan and System temperature monitor board
- One extra space for additional 6cm fan

Ports

- (2) USB 2.0 ports on front panel

Switches

- ATX On/Off Switch and Reset Switch

Indicators

- Power On/Off, HDD activity, and system defined LEDs

Dimensions

- 427(W) x 400(D) x 132.6(H) mm
- 14(W) x 15.5(D) x 5.2 (H) inches

Operating Temperature

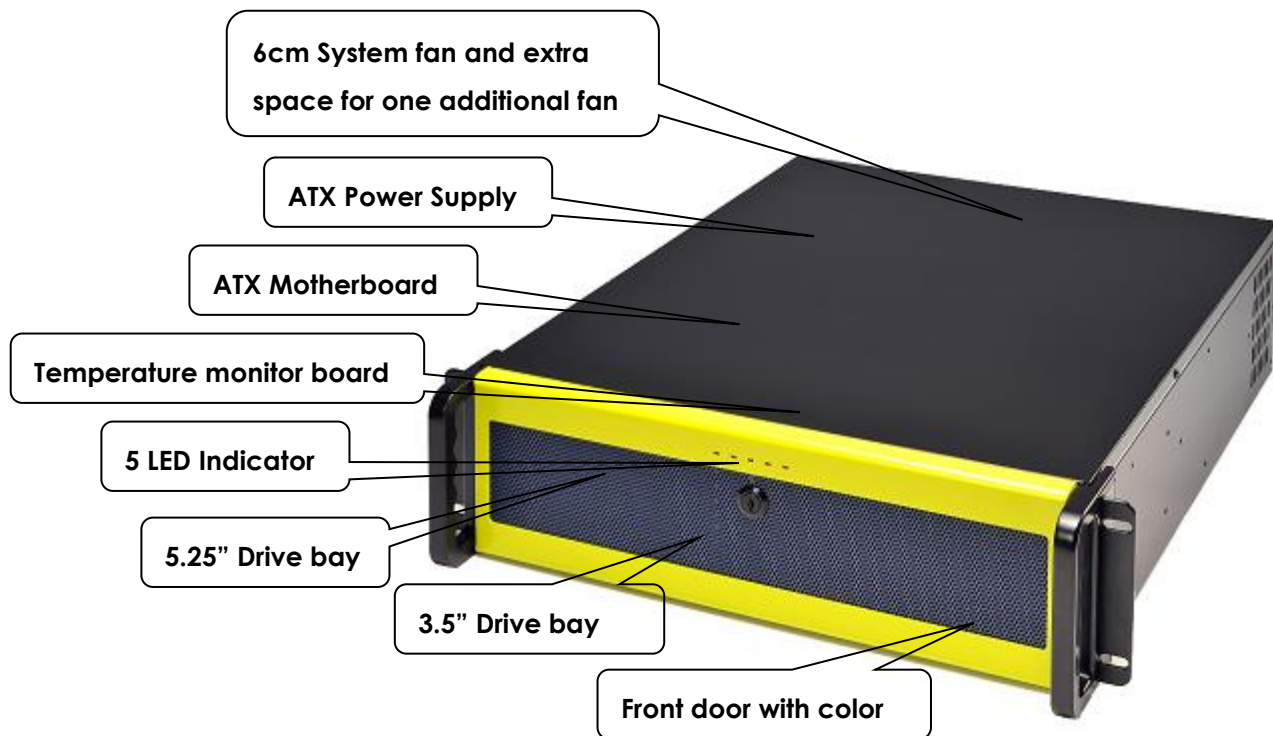
- 0~55 °C

Gross Weight

- 11.5kg / 25.4lbs

Ordering Information

RCK-306M	3U rackmount chassis for microATX M/B with (6) drive bays
RCK-306M-400W	3U rackmount chassis for microATX M/B with (6) drive bays and 400W PSU
RCK-306M-600W	3U rackmount chassis for microATX M/B with (6) drive bays and 600W PSU
MR-K22C3	Optional Mobile rack for (3) 3.5" SATA 3.0 hard drives



Introduction

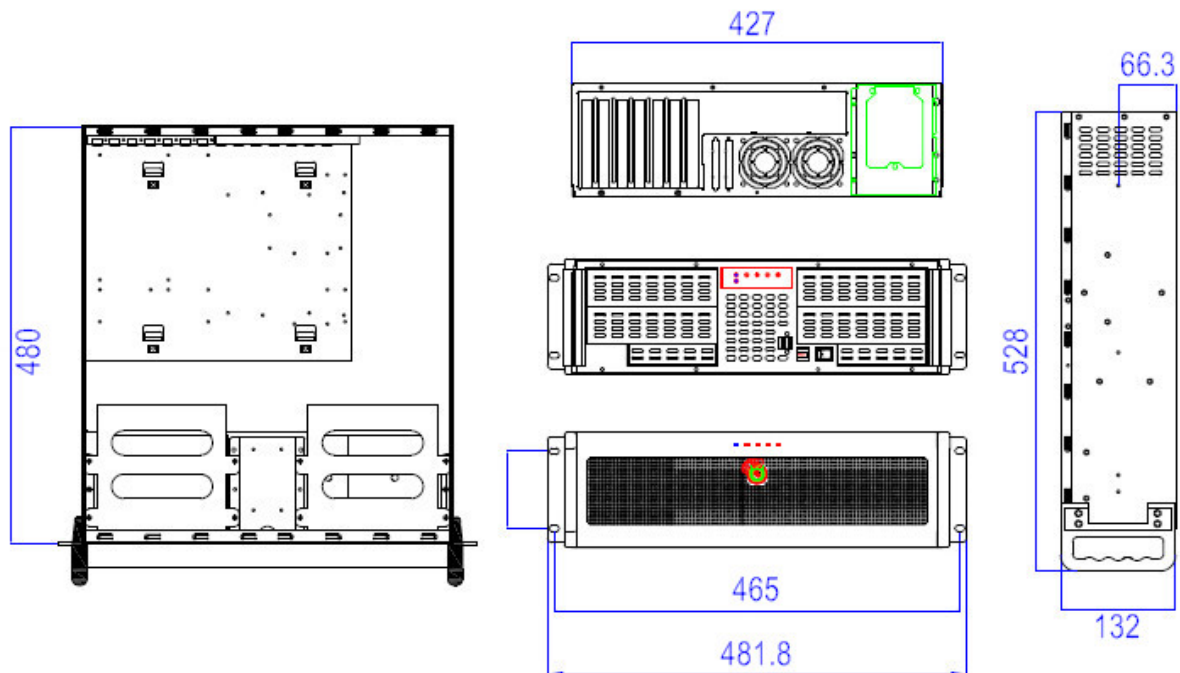
The **RCK-307MT** is a new 3U chassis with high density drive bays, designed for variety of Industrial application and DVR monitoring system. Instead of using 4U bulky chassis, it is a good alternative solution for standard ATX motherboard application. Besides four 5.25" external drive bays, it offers three 3.5" drive bays, sufficient enough for applications that needs significant amount of driver bays.

It has one 6CM cooling fan on the rear panel for optimum heat dissipation. There are 5 LEDs in the front panel in order to let users monitor the system status easily. The chassis can be expanded from the expansion slots of the motherboard up to six slots. The front door can be customized with your own corporate color and logo, allowing you to differentiate yourself from your competitors.

Features

- 19" Rackmount Standard 3U height
- Front 5 LED indicator to monitor System power, HDD activity, Fans and Heat sensors
- Single front door with Lockable door and option for customized color
- (2) 3.5" and (4) 5.25 external Drive bays, and (1) 3.5" internal Drive bay
- Built-in System temperature monitor board
- Extra space for one additional 6cm fan
- Two USB 2.0 ports

Mechanical Drawing



Construction

- Zinc Coated Heavy Duty Steel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (2) 3.5" and (4) 5.25 ext. and (1) 3.5" int. bays

Expansion

- Depends on motherboard, up to (7) expansion slots

Power Supply

- ATX power supply

Cooling System

- (1) 6cm fan and System temperature monitor board
- One extra space for additional 6cm fan

Ports

- (2) USB 2.0 ports on front panel

Switches

- ATX On/Off Switch and Reset Switch

Indicators

- Power, HDD, Fan, S1 and S2 Heat sensor LEDs

Dimensions

- 481.8(W) x 480.0(D) x 132(H) mm
- 19 (W) x 18.9(D) x 5.2 (H) inches

Operating Temperature

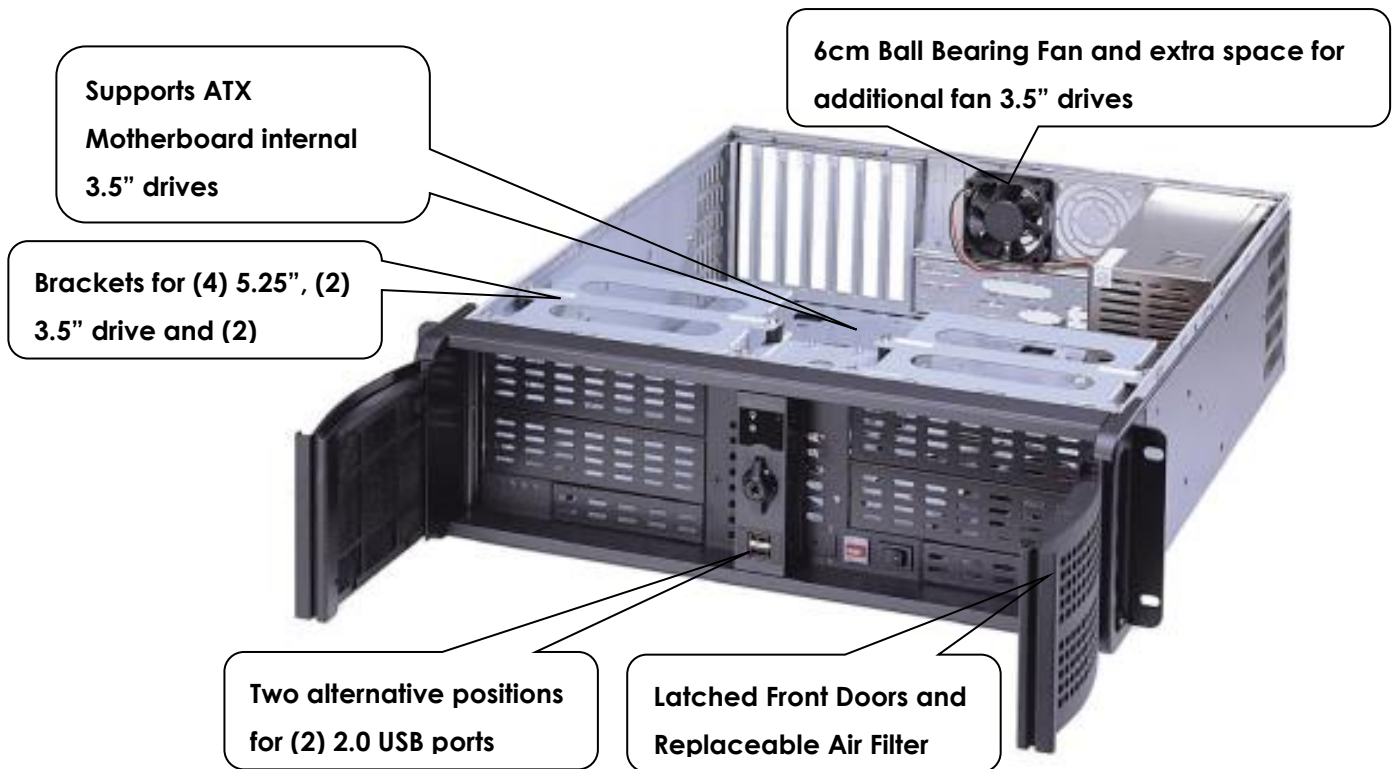
- 0~55 °C

Gross Weight

- 13.8kgs / 30.4lbs

Ordering Information

RCK-307MT	3U chassis for ATX motherboard
RCK-307MT-300W	3U chassis for ATX motherboard with 300W PSU
MT-SR01	Optional 18" Slide Rail
MT-SR02	Optional 24" Slide Rail



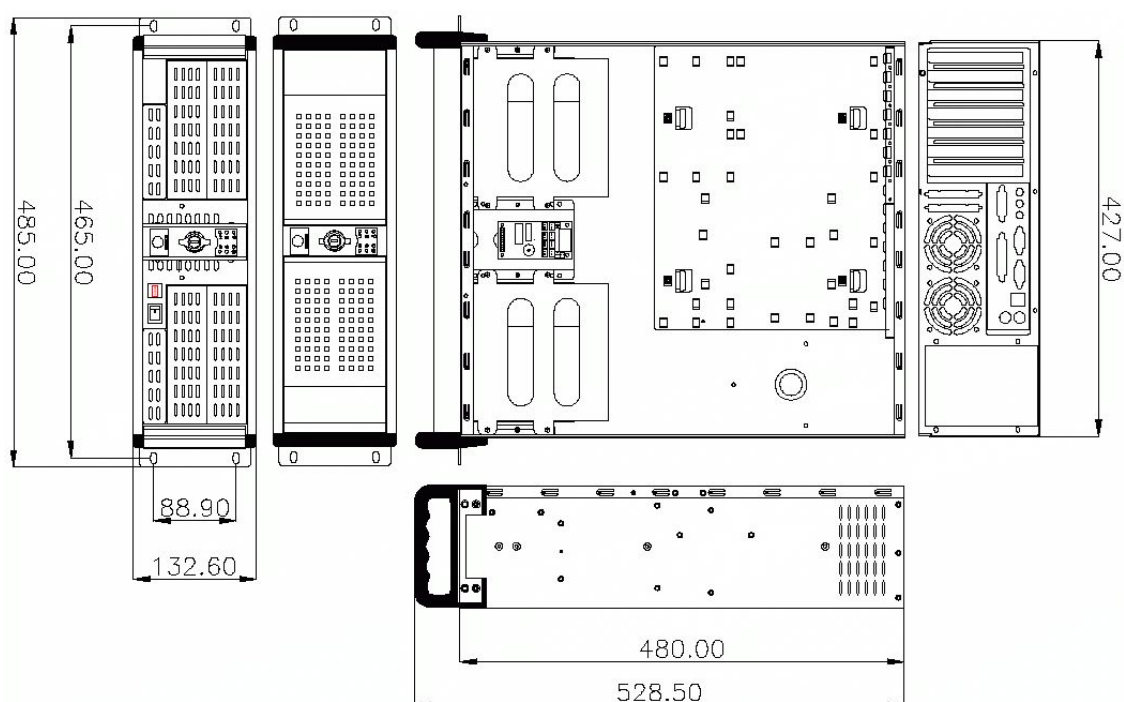
Introduction

The **RCK-308MA** 3U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using ATX motherboard. Besides external four 5.25" bays and two 3.5" bays, **RCK-308MA** offers two 3.5" shock resistive drive bays; sufficient for applications that use quite significant number of drivers without having to use very bulky 4U chassis. Two levels temperature management relies on one ball bearing 6cm fan that provide excellent cooling and System Environmental Monitor that warns users when the system temperature is above normal. One extra space for optional additional fan is provided for more heat sensitive application. **RCK-308MA** offers two alternative positions for two 2.0 USB ports.

Features

- Standard 3U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating RoHS compliant
- Front Panel with Lockable Doors to Protect Drives
- (4) 5.25", (2) 3.5" FDD, (2) 3.5" internal HDD drive bays with shock-resistant drive brackets
- (2) 2.0 USB ports with two alternative positions to choose
- Supports ATX Motherboard
- System Environmental Monitor
- Extra space for one additional 6cm fan

Mechanical Drawing



Construction

- Zinc-Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (4) 5.25" and (2) 3.5" external drives and (2) 3.5" internal drives

Expansion

- 7-Slots for full size add-on cards

Power Supply

- Supports ATX power supply

Cooling System

- 6 cm and environmental monitoring board. One extra space for additional 6cm fan

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- LED for Power ON/OFF, HDD, Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 132.6 (H)mm
- 16.8 (W) x 18.9 (D) x 5.2 (H) inches

Operating Temperature

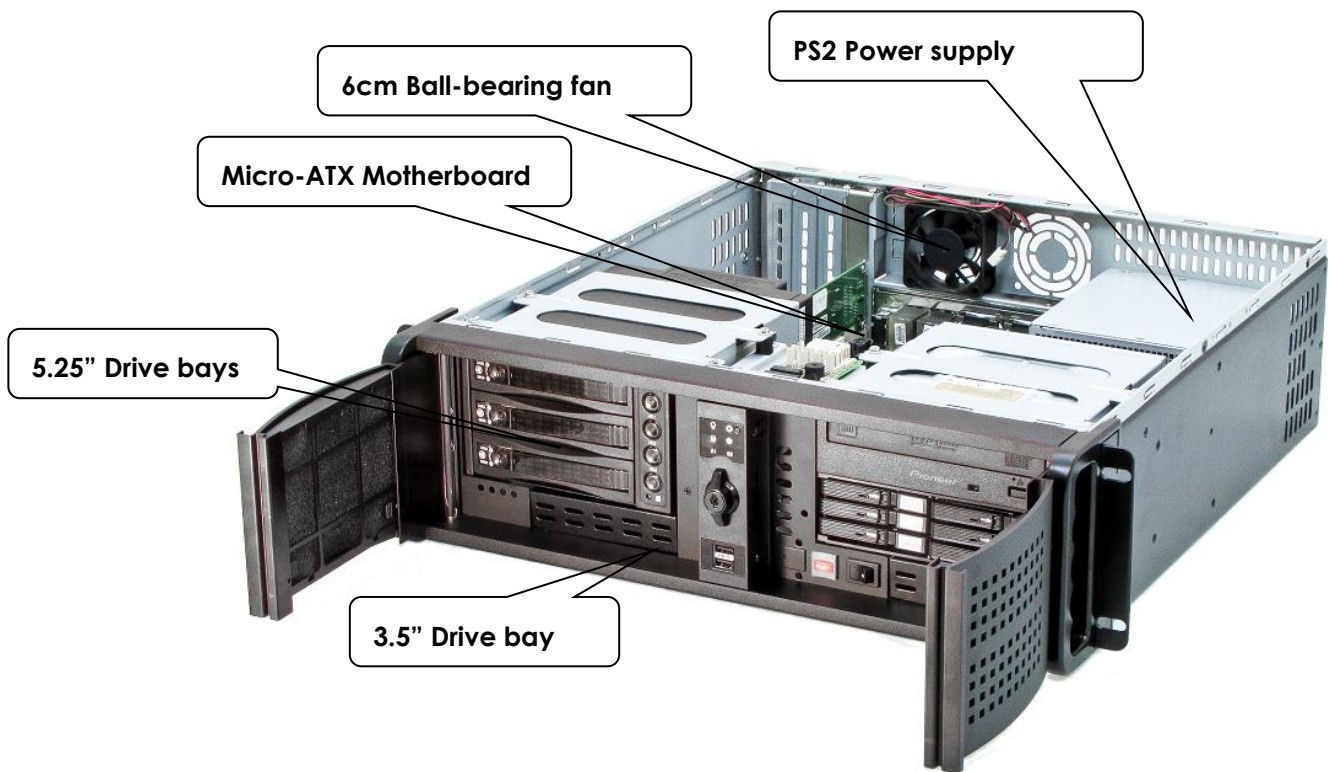
- 0~55 °C

Gross Weight

- 13.8kg

Ordering Information

RCK-308MA	3U chassis for ATX motherboard with (4) 5.25", (2) 3.5" FDD, (2) 3.5" Internal drive bays
RCK-308MA-300W	RCK-308MA with 300W Power Supply
RCK-308MA-380W	RCK-308MA with 380W Power Supply
MT-SR01	Optional Slide Rail



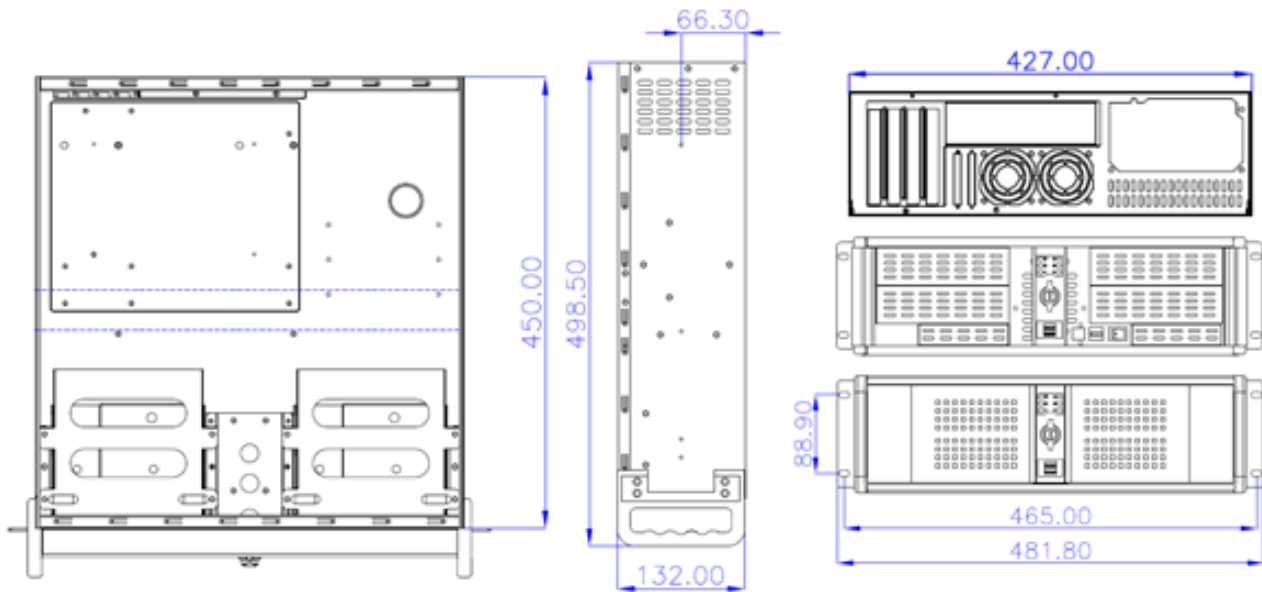
Introduction

The **RCK-308MB** is 3U 19" chassis with high density Drive bays designed for a variety of Industrial application and for DVR monitoring system. Instead of using 4U bulky chassis, it is a good alternative solution for standard micro ATX motherboard application. Besides six external Drive bays, it offers two 3.5" internal Drive bays, sufficient enough for applications that needs significant amount of storage drives. It has one 6cm cooling Fan and another optional one on the rear panel for optimum heat dissipation. With two USB ports on the front panel, the chassis can be easily accessed from the front for user's conveniences purpose. There are 6 LEDs in the front panel in order to let users monitor the system status easily.

Features

- 19" Rackmount Standard 3U height
- Heavy-duty Steel SECC 1.2t
- Support microATX and Mini-ITX Motherboard
- (4) 5.25 and (2) 3.5" external Drive bays, and (2) 3.5" internal Drive bays
- 6 Front LEDs for monitoring Power On/Off, HDD activity, System temperature and Fans status, and Reset
- Built-in System environmental monitor board
- Optional 18-inch Slide rail

Mechanical Drawing



Construction

- Heavy-duty Steel SECC 1.2t

Color

- Black

Board Support

- Micro-ATX and Mini-ITX Motherboard

Drive bays

- (4) 5.25 & (2) 3.5 external Drive bays, and (2) 3.5 internal Drive bays

Expansion

- (4) Expansion slots

Power Supply

- PS2 ATX Power supply

Cooling System

- (1) 6cm Fan and optional another (1)cm Fan
- Built-in Temperature board with (8) fans sensor detection for system environment monitoring

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

LED Indicators

- Power On/Off
- HDD Activity
- (2) Temperature Sensor
- Fan Failure
- Reset Switch

Dimensions (W x D x H)

- 427 x 450 x 132.6 mm
- 16.8 x 17.7 x 5.248 inches

Operating Temperature

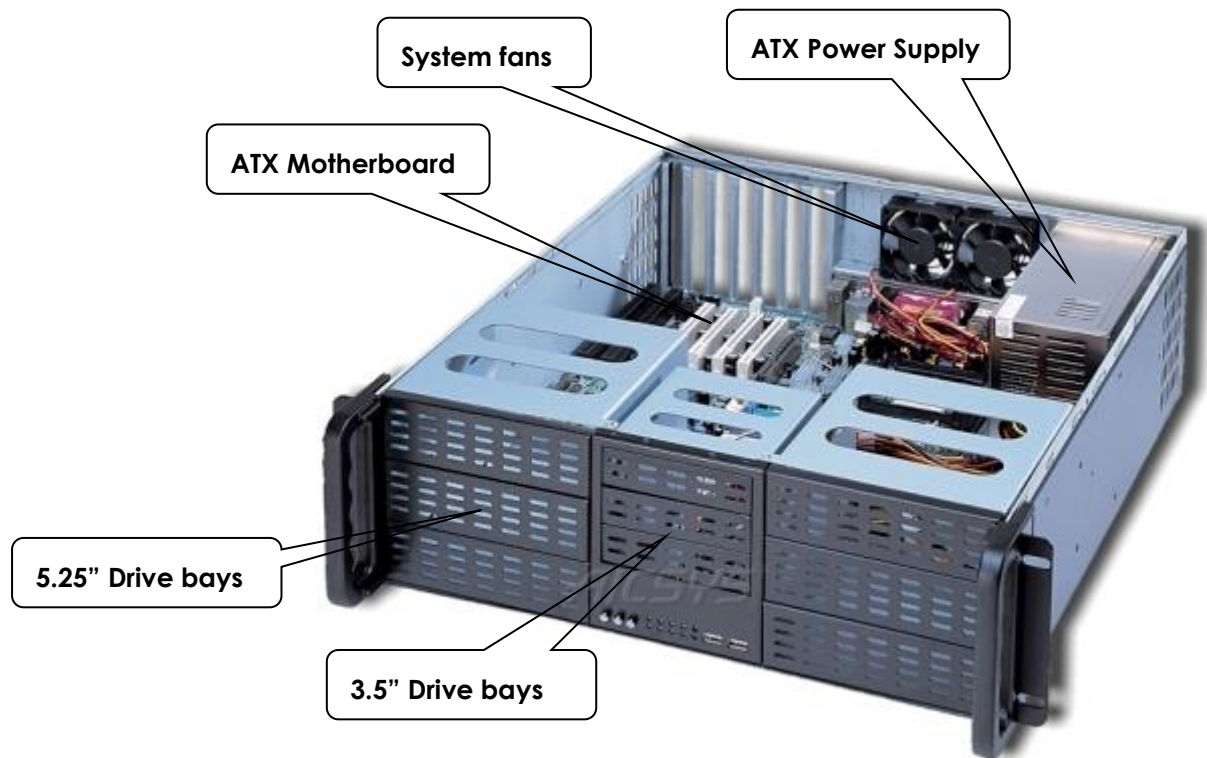
- 0~55 °C

Gross Weight

- 12.6kgs

Ordering Information

RCK-308MB	3U chassis for mATX motherboard
RCK-308MB-400W	3U chassis for ATX motherboard with 400W ATX PSU
RCK-308MB-600W	3U chassis for ATX motherboard with 600W ATX PSU
RCK-308MB1	3U chassis for mATX M/B with chassis depth 420mm
MT-SR01	Optional 18" Slide rail



Introduction

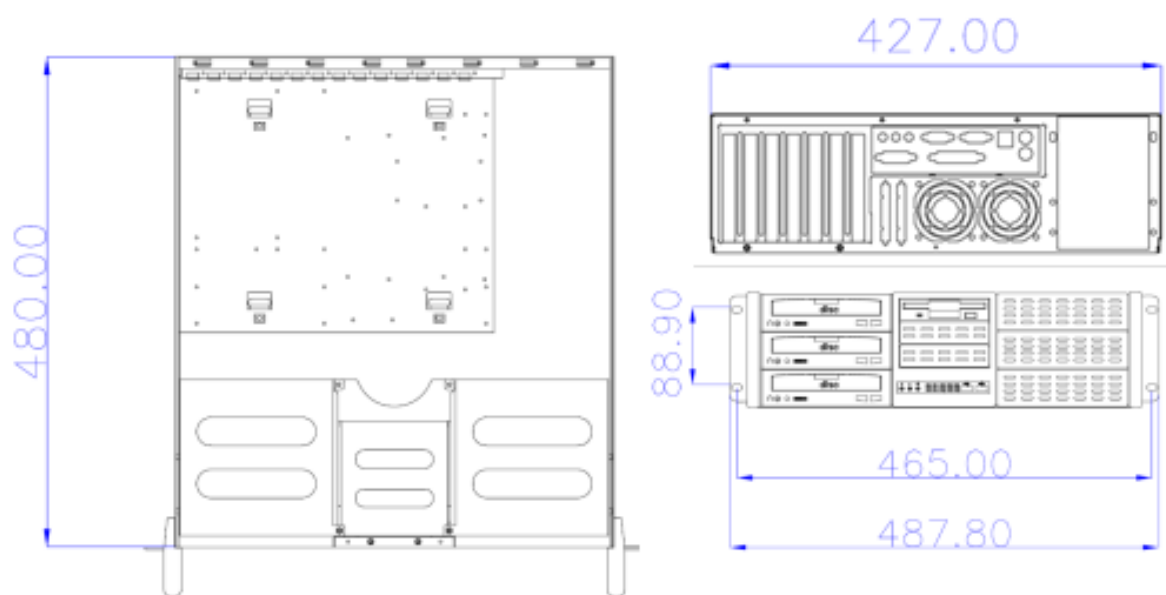
The **RCK-309MA** is 3U 19" chassis with high density drive bays designed for a variety of Industrial application and for DVR monitoring system. Instead of using 4U bulky chassis, it is a good alternative solution for standard ATX motherboard application. Besides six 5.25" external drive bays, it offers three 3.5" driver bays, sufficient enough for applications that needs significant amount of driver bays.

It has two cooling fans on the rear panel for optimum heat dissipation. With two USB ports on the front panel, the chassis can be easily accessed from the front for user's conveniences purpose. There are 10 LEDs in the front panel in order to let users monitor the system status easily. The chassis can be expanded from the expansion slots of the motherboards up to six slots

Features

- 19" Rackmount Standard 3U height
- 10 Front LEDs for monitoring power supply, HDD activity and fans status
- Built-in System environmental monitor board
- (3) 3.5" and (6) 5.25 external drive bays
- Optional LCD control panel for DVR system

Mechanical Drawing



Construction

- Heavy-Duty Steel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (3) 3.5" and (6) 5.25 external drive bays

Expansion

- Depends on motherboard, up to (6) expansion slots

Power Supply

- 2U Power Supply

Cooling System

- Built-in Temperature board with (8) fans sensor detection for system environment monitoring

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (6) HDD Active LED
- (1) Fan Failure LED
- (2) Temperature Sensor LED

Dimensions

- 487.8(W) x 523.4(D) x 133±.5(H) mm
- 19.2 (W) x 20.6(D) x 5.2 (H) inches

Operating Temperature

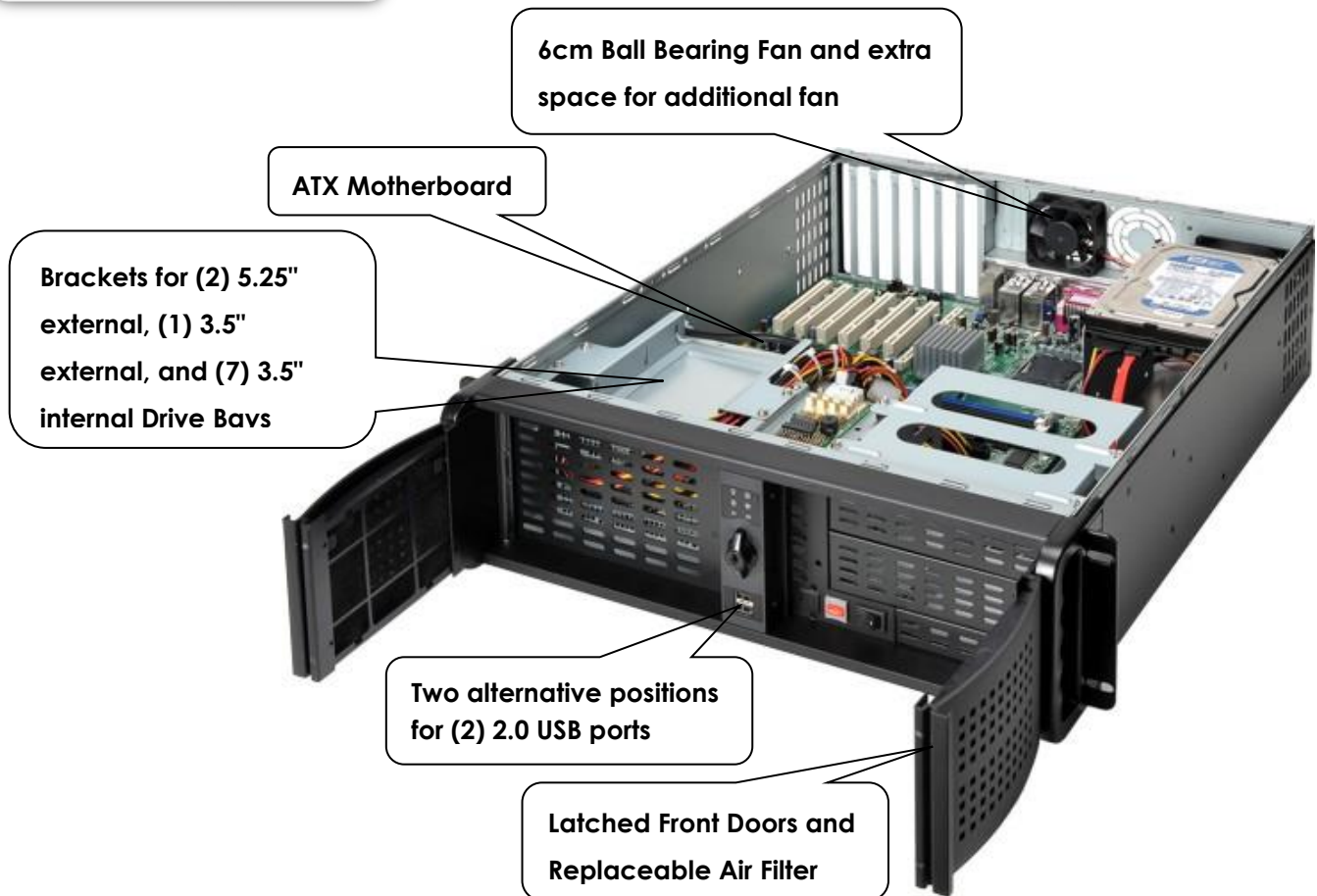
- 0~55 °C

Gross Weight

- 12.6kgs

Ordering Information

RCK-309MA	3U chassis for ATX motherboard
RCK-309MA-300W	3U chassis for ATX motherboard with 300W PSU
RCK-309MA-400W	3U chassis for ATX motherboard with 400W PSU
MT-SR01	Optional Slide Rail



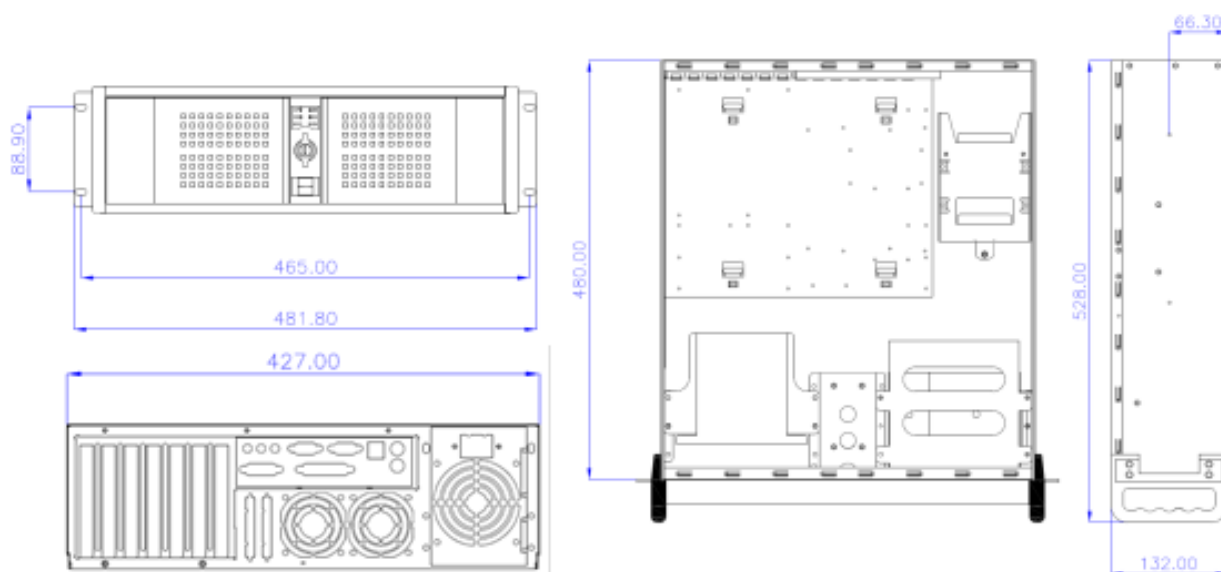
Introduction

The **RCK-310MA** 3U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using ATX motherboard. Besides external (2) 5.25" bays and (8) 3.5" bays, the chassis offer sufficient for applications that use quite significant number of drivers without having to use very bulky 4U chassis. Two levels temperature management relies on one ball bearing 6cm fan that provide excellent cooling and System Environmental Monitor that warns users when the system temperature is above normal. One extra space for optional additional fan is provided for more heat sensitive application. **RCK-310MA** offers two alternative positions for two 2.0 USB ports.

Features

- Standard 3U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating RoHS compliant
- Front Panel with Lockable Doors to Protect Drives
- (2) 5.25", (1) external & (7) internal 3.5" HDD drive bays with shock-resistant drive brackets
- (2) 2.0 USB ports with two alternative positions to choose
- Supports ATX Motherboard
- System Environmental Monitor
- Extra space for one additional 6cm fan

Mechanical Drawing



Construction

- Zinc-Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (4) 5.25" and (2) 3.5" external drives and (2) 3.5" internal drives

Expansion

- 7-Slots for full size add-on cards

Power Supply

- Supports ATX power supply

Cooling System

- 6 cm and environmental monitoring board. One extra space for additional 6cm fan

Ports

- Two USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- LED for Power ON/OFF, HDD, Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 132.6 (H)mm
- 16.8 (W) x 18.9 (D) x 5.2 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 13.5kg

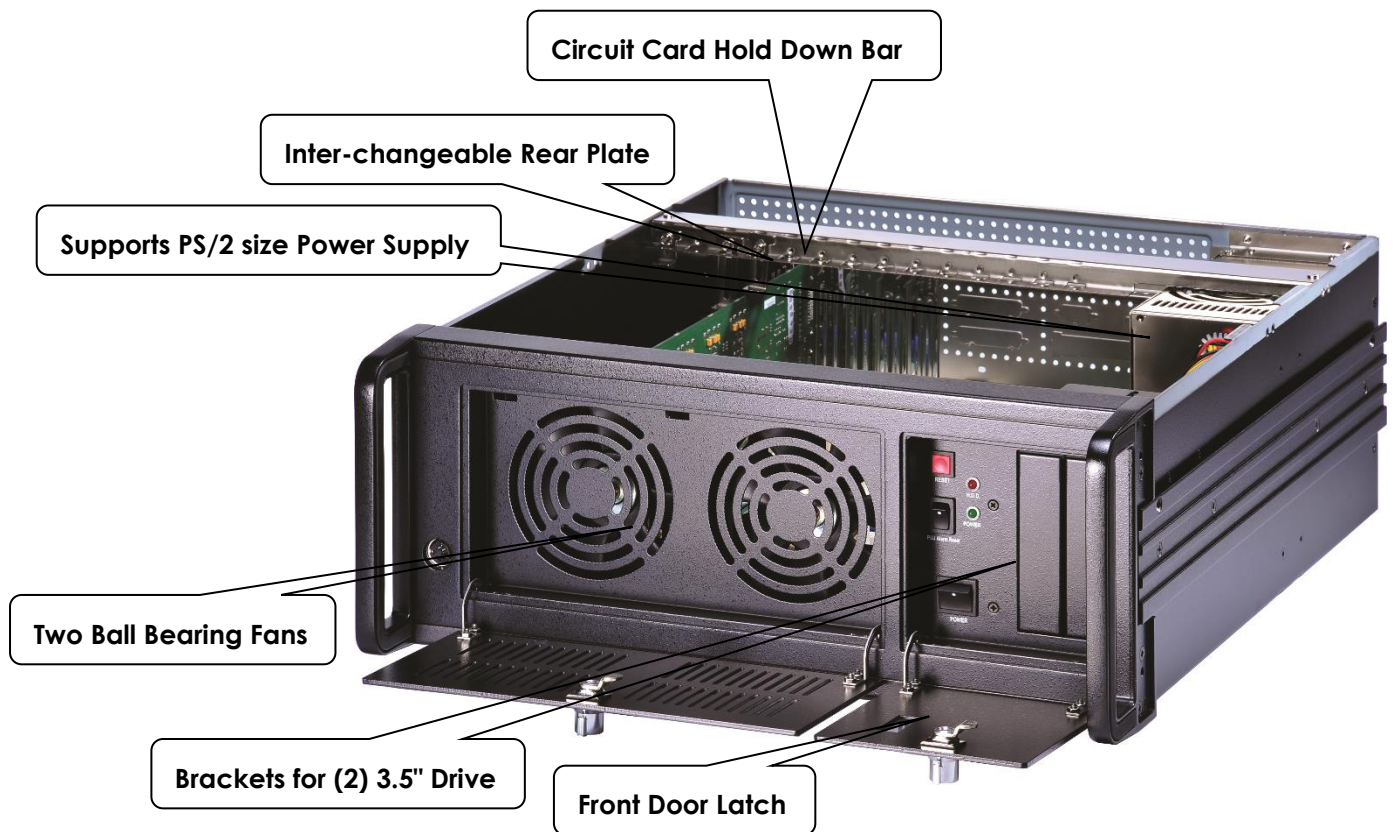
Ordering Information

RCK-310MA	3U chassis for ATX motherboard with (2) 5.25" external, (1) 3.5" external, and (7) 3.5" internal Drive Bays
RCK-310MA-400W	RCK-310MA with 400W Power Supply
MT-SR01	Optional Slide Rail

4U Ruggedized Industrial Chassis



The Global Choice for Premium Industrial Computer Products



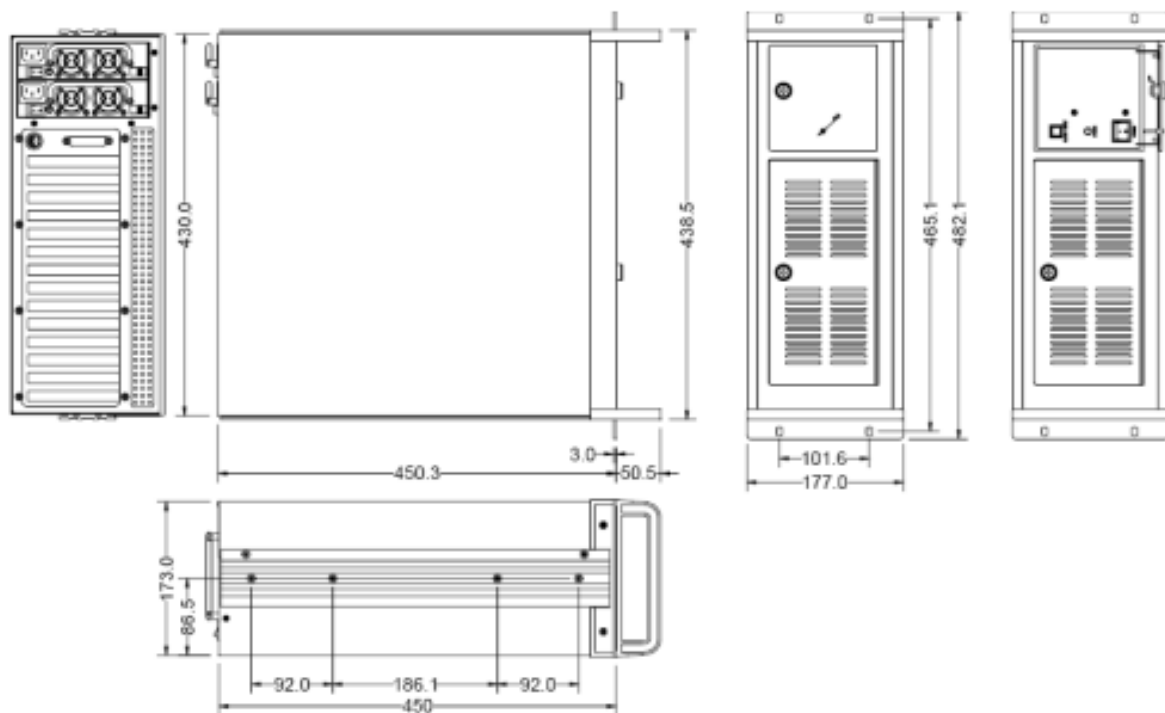
Introduction

The **RCK-402** 4U Rackmount Chassis provides a cost effective solution for a variety of Industrial applications. It is easily configurable to support either an ATX Motherboard or a 14-slot PICMG backplane by simply changing the rear panel. The **RCK-402** can support up to two 3.5" shock resistant drives and a retaining bar is included to hold expansion cards in place for those applications which encounter a high level of vibration. Both AT and ATX PS/2 size Power Supplies are supported by the **RCK-402** for any applications with unique power requirements.

Features

- 4U 19" Rackmount Chassis
- Front Panel with Lockable Door to Protect Drives
- (2) 3.5" Drive Bays
- Replaceable Air Filter for easy cleaning
- Changeable rear I/O shield
- Anti Vibration Card Clamp
- Backplane & ATX motherboard Support

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige

Board Support

- 14-slot Backplane or ATX motherboard

Drive Bays

- (2) 3.5" external drives

Expansion

- Up to (13) expansion slots

Power Supply

- PS/2 ATX power supply

Cooling System

- Two 12 cm ball bearing fans with replaceable air filter

Ports

- One front panel connector for keyboard

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- HDD Active LED

Dimensions

- 438.5 (W) x 450 (D) x 173 (H) mm
- 17.2 (W) x 17.7 (D) x 6.8 (H) inches

Operating Temperature

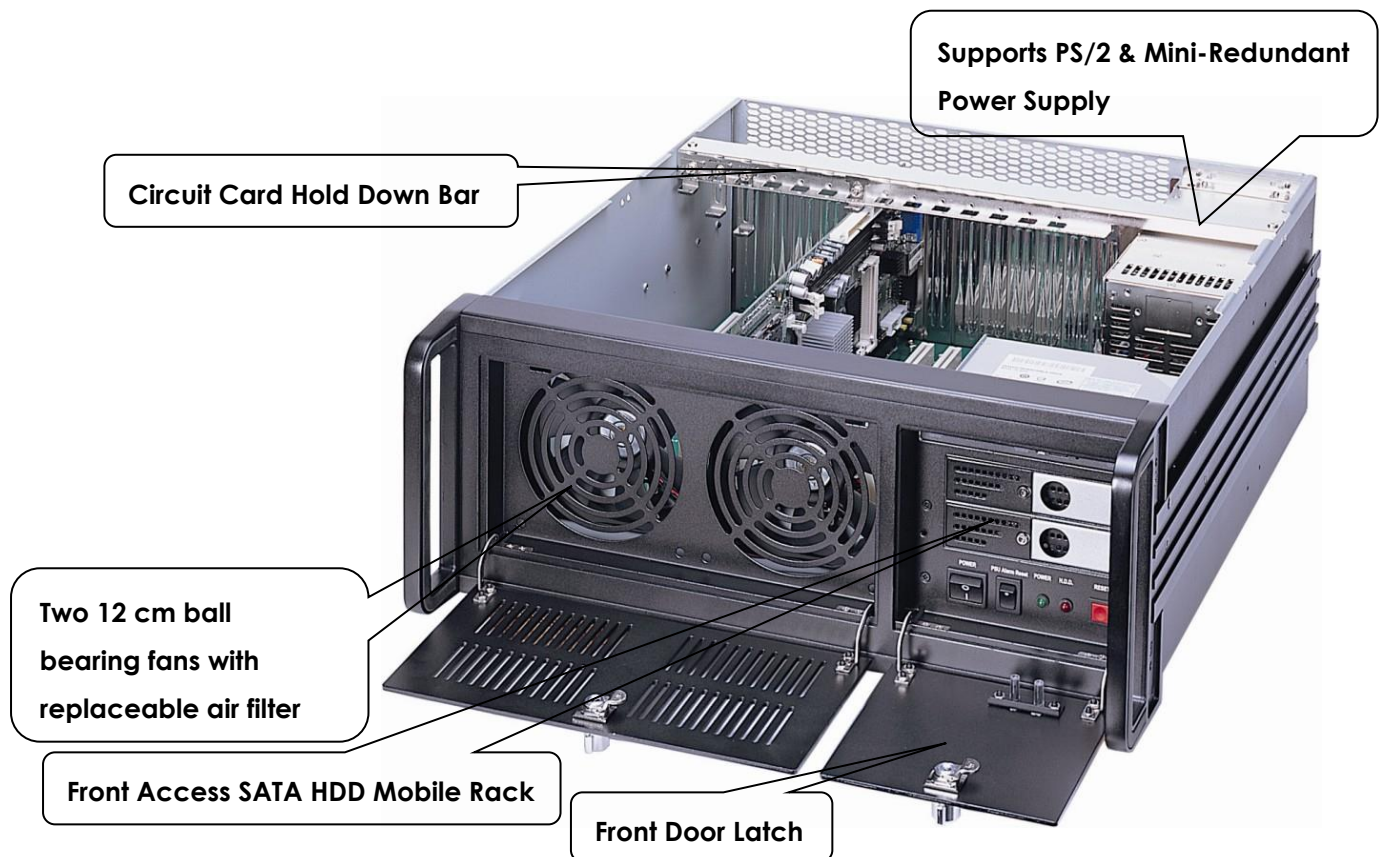
- 0~55 °C

Gross Weight

- 14.1kg

Ordering Information

RCK-402B	4U Rackmount chassis with (2) 3.5" Drive Bays for 14-slot Backplane
RCK-402M	4U Rackmount chassis with (2) 3.5" Drive Bays for ATX Motherboard



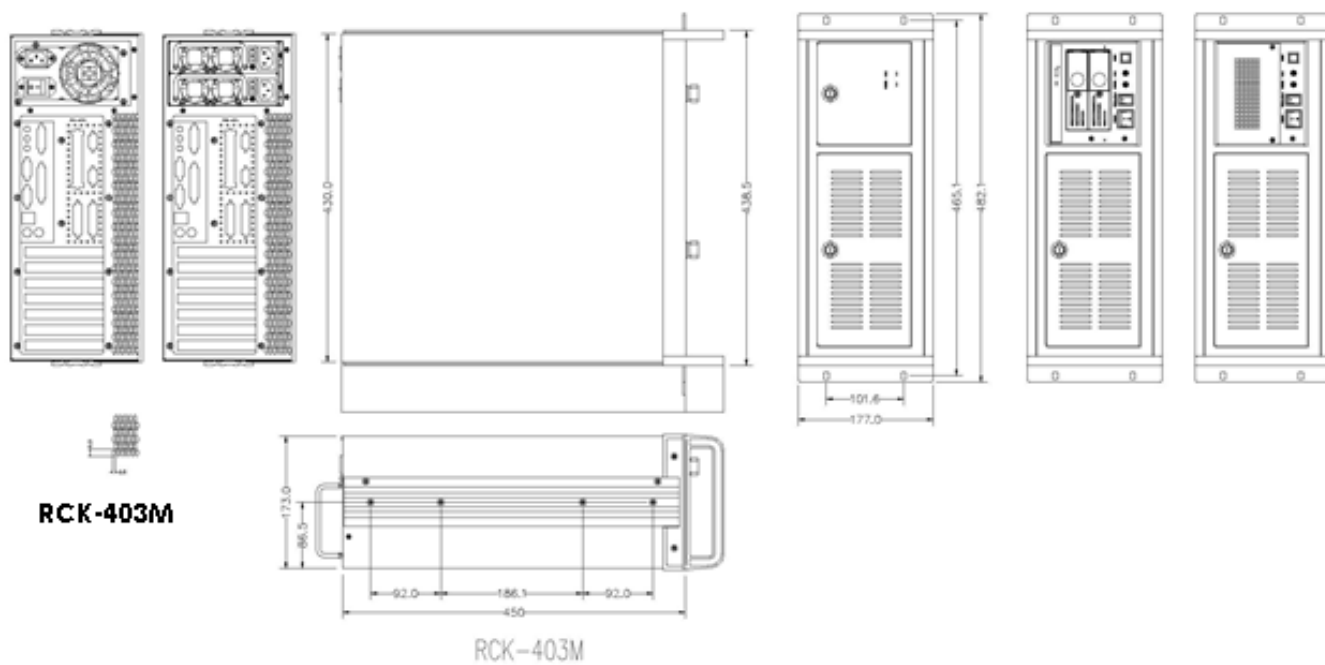
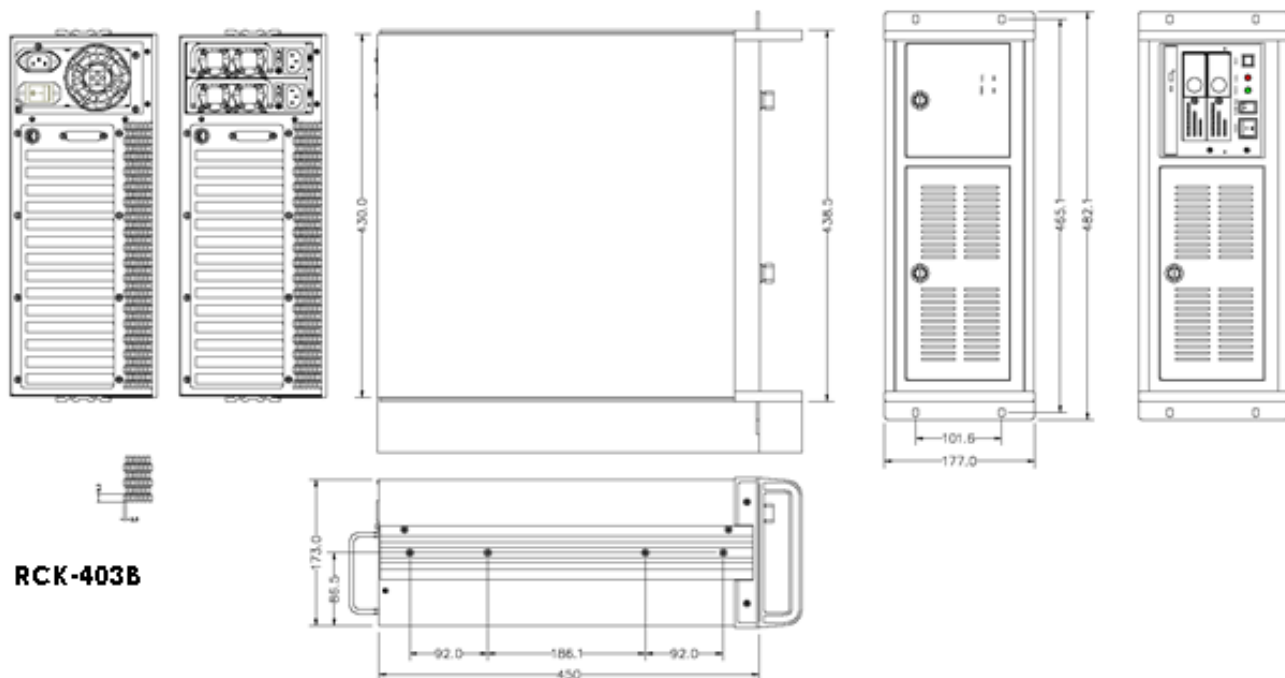
Introduction

The **RCK-403** 4U Rackmount Chassis provides a cost effective solution for a variety of Industrial applications. The **RCK-403** can support up to two 3.5" HDD drives with Mobile Rack and a slim optical drive, retaining bar is included to hold expansion cards in place for those applications which encounter a high level of vibration. The chassis has 2 extra-large fans for optimum cooling. Both AT and ATX PS/2 size Power Supplies and Mini-Redundant power supply are supported by the **RCK-403** for any applications with unique power requirements. The **RCK-403** supports 14-slot backplane for full-size PICMG SBC (Single Board Computer) and ATX motherboard..

Features

- 4U 19" Rackmount Chassis
- Front Panel with Lockable Door to Protect Drives
- (2) 3.5" HDD Mobile rack & (1) Slim ODD Drive Bays
- Replaceable Air Filter for easy cleaning
- Changeable rear I/O shield
- Anti Vibration Card Clamp
- Supports 14-slot Backplane/ATX motherboard
- (2) 12CM system fan with air filter

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige

Board Support

- 14-slot Backplane
- ATX Motherboard

Drive Bays

- (2) 3.5" External HDD with Mobile rack
- (1) Slim Optical Drive

Expansion

- Up to (13) expansion slots

Power Supply

- PS/2 or Mini-Redundant ATX power supply

Cooling System

- Two 12 cm ball bearing fans with replaceable air filter

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- HDD Active LED

Dimensions

- 438.5 (W) x 450 (D) x 173 (H) mm
- 17.2 (W) x 17.7 (D) x 6.8 (H) inches

Operating Temperature

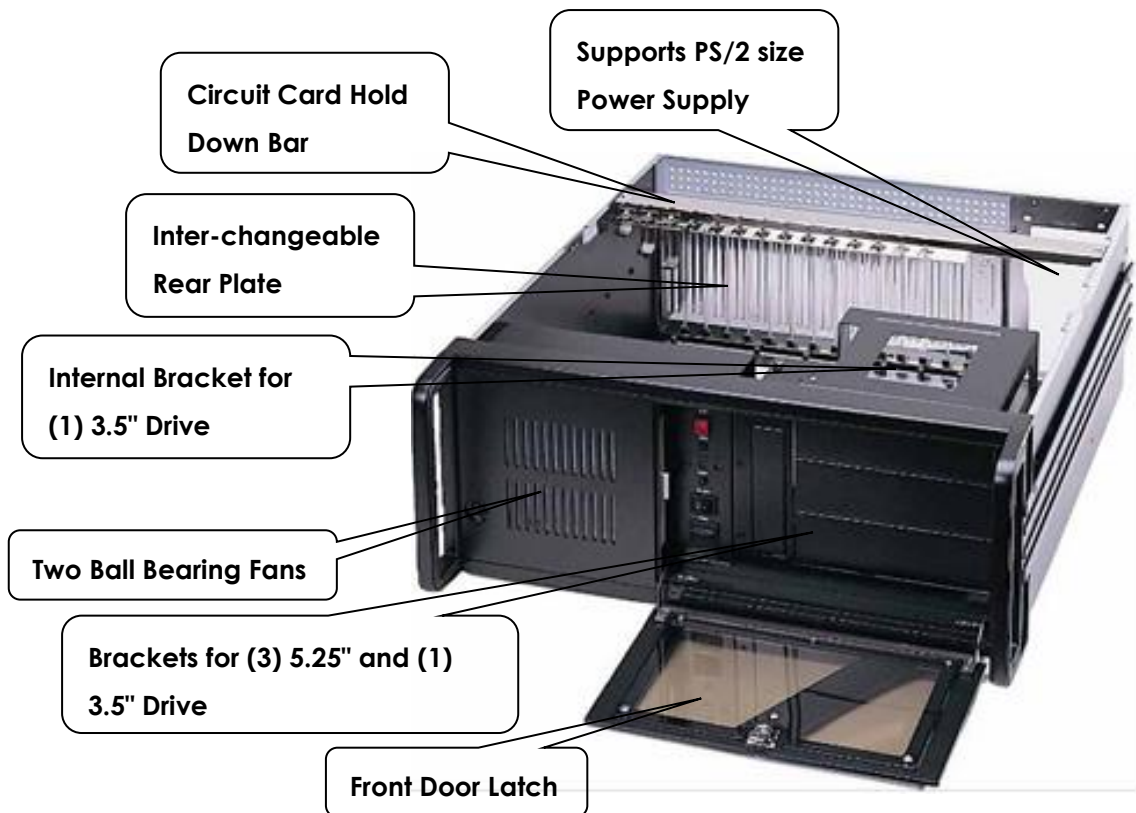
- 0~55 °C

Gross Weight

- 14.4kg

Ordering Information

RCK-403B	4U Rackmount chassis with (3) Drive Bays for 14-slot Backplane
RCK-403B-400W	Same as above and with 400W PS/2 power supply
RCK-403M	4U Rackmount chassis with (3) Drive Bays for ATX motherboard
RCK-403M-400W	Same as above and with 400W PS/2 power supply



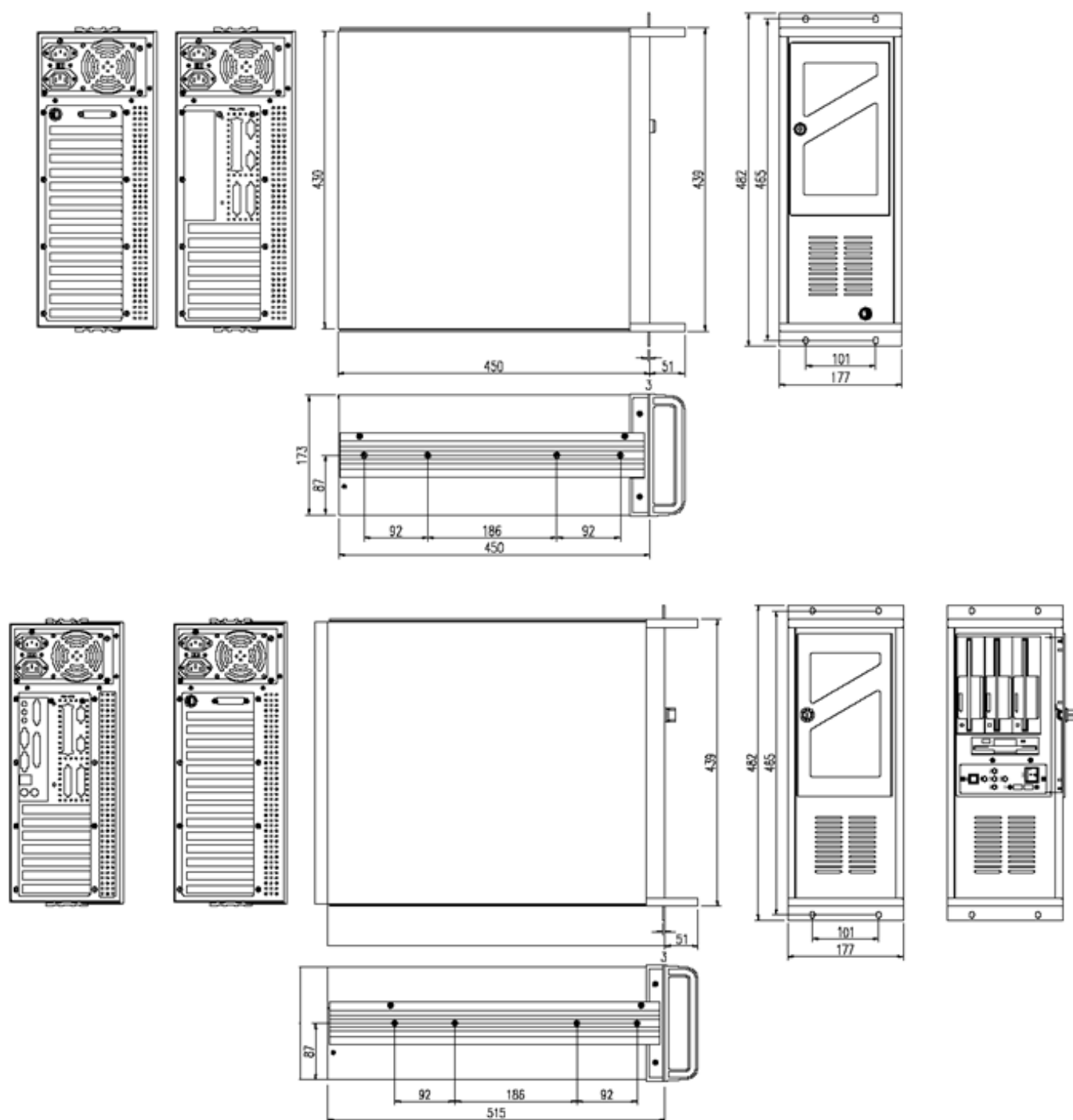
Introduction

The **RCK-405** 4U Rackmount Chassis provides a cost effective solution for a variety of Industrial applications. It is easily configurable to support either an ATX Motherboard or a 14-slot PICMG backplane by simply changing the rear panel. The **RCK-405** can support up to five shock resistant drives (3-5.25"/1-FDD/1-HDD) and a retaining bar is included to hold expansion cards in place for those applications which encounter a high level of vibration. Both AT and ATX PS/2 size Power Supplies are supported by the **RCK-405** for any applications with unique power requirements.

Features

- 4U 19" Rackmount Chassis
- Front Panel with Lockable Door to Protect Drives
- (2) 3.5" and (3) 5.25" Drive Bays
- (2) Front USB 2.0 Ports (optional)
- Changeable rear I/O shield
- Anti Vibration Card Clamp
- Motherboard or Backplane Support

Mechanical Drawing



Construction

- Heavy duty steel with Ni plating

Color

- Black/Beige

Board Support

- Backplane (405B)/ ATX Motherboard (405M)/
Extended ATX Motherboard (405ME)

Drive Bays

- (3) 5.25" + (1) 3.5" external drives and (1) 3.5" internal drives

Expansion

- Depends on backplane or motherboard

Power Supply

- ATX power supply/ Mini-Redundant Power

Cooling System

- One 12 cm and one 8 cm ball bearing fans with replaceable air filter

Ports

- One front panel connector for keyboard
- Optional (2) USB ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (6) HDD Active LED

Dimensions

- RCK-405M/405B:
449(W) x 450(D) x 177(H) mm
17.7(W) x 17.7(D) x 7 (H) inches
- RCK-405ME/405BE:
449(W) x 514(D) x 177(H) mm
17.7(W) x 20.2(D) x 7(H) inches

Operating Temperature

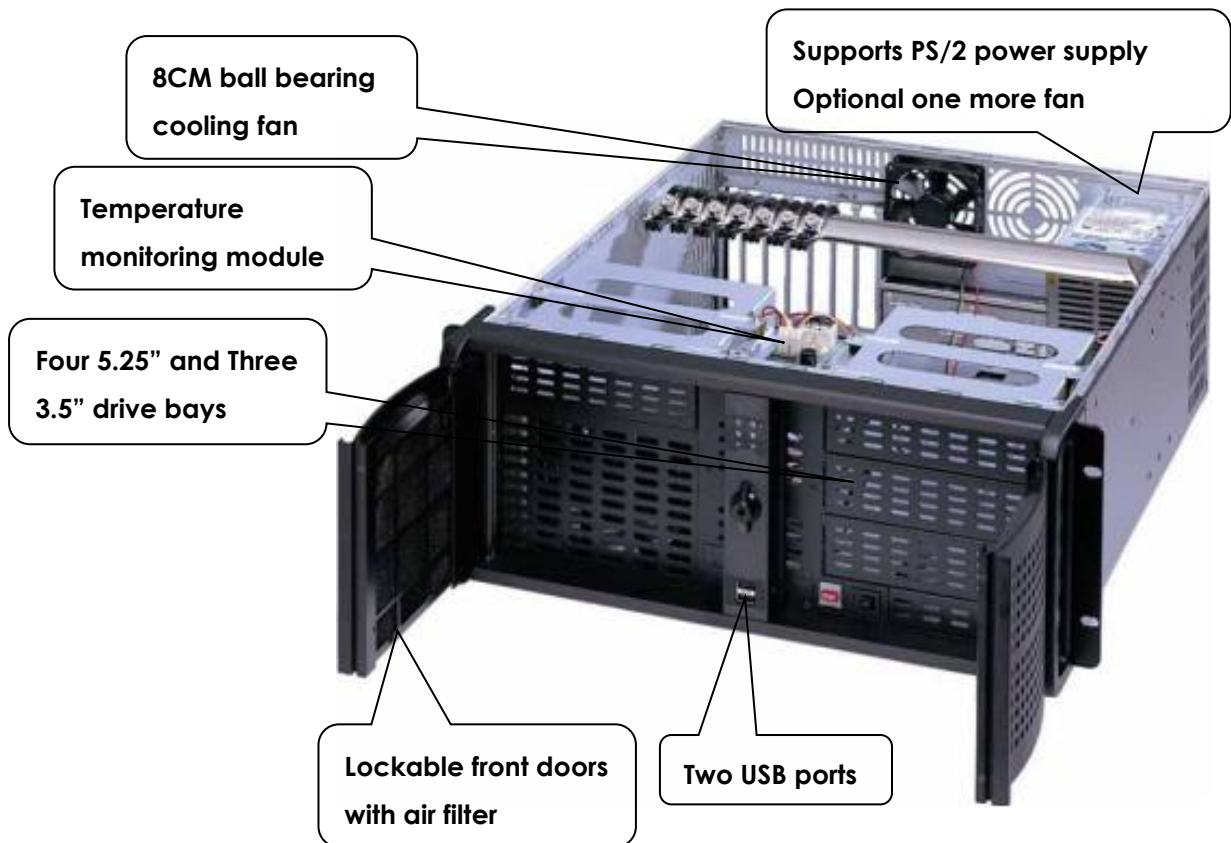
- 0~55 °C

Net/Gross Weight

- RCK-405M/405B: 10.8Kgs/13.8Kgs
- RCK-405ME/405BE: 17Kgs

Ordering Information

RCK-405B	4U Rackmount chassis, with (3) 5.25" and (2) 3.5" drive bays for 14/15-slot Backplane
RCK-405BE	4U Rackmount chassis, with (3) 5.25" and (2) 3.5" drive bays for 14/15-slot Backplane
RCK-405M	4U Rackmount chassis, with (3) 5.25" and (2) 3.5" drive bays for ATX motherboard
RCK-405ME	4U Rackmount chassis, with (3) 5.25" and (2) 3.5" drive bays for ATX / Extended ATX motherboard
MT-PL01	Optional back plate for RCK-405M/RCK-405ME with 2 fans



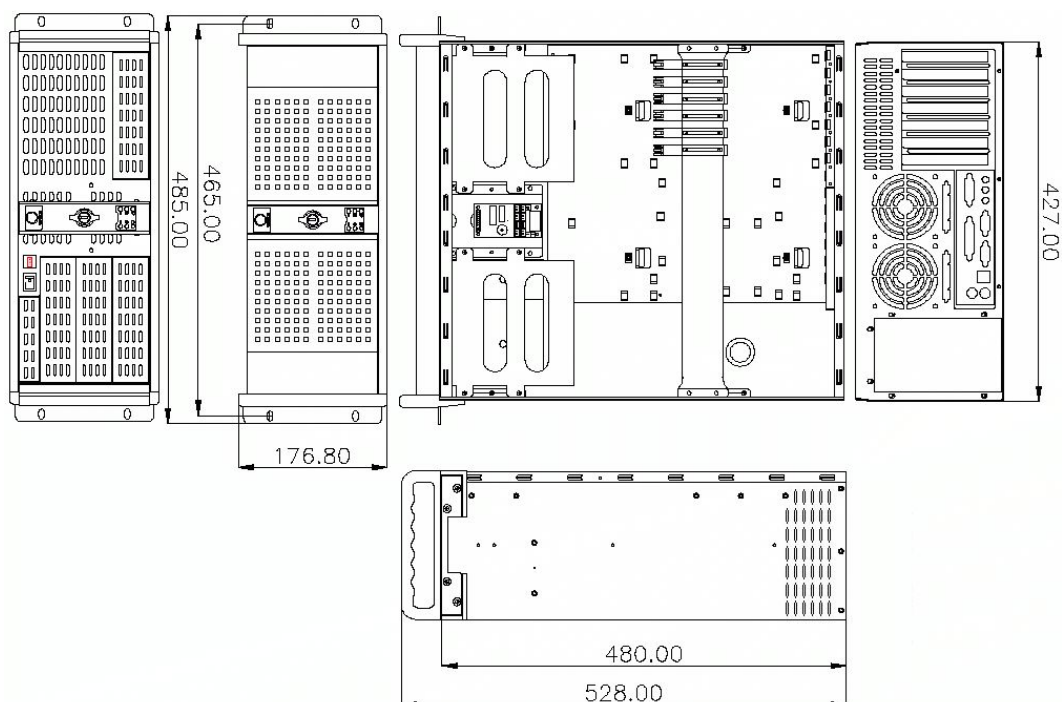
Introduction

The **RCK-407MA** 4U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using ATX motherboard. Besides external four 5.25" bays and one 3.5" bays, **RCK-407MA** offers two internal 3.5" shock resistive drive bays. Two levels temperature management relies on one ball bearing 12cm fan on the front + 8cm fan on the rear and System Environmental Monitor that warns users when the system temperature is above normal. One extra space for optional additional 8 cm fan is provided for more heat sensitive application. **RCK-407MA** offers two alternative positions for two 2.0 USB ports & supports 4U ATX Power Supplies.

Features

- Standard 4U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating
- Front Panel with Lockable Doors
- (4) 5.25", (1) 3.5" FDD, (2) 3.5" internal HDD drive bays in two shock-resistant cages
- Two 2.0 USB ports
- ATX Motherboard Support System Environmental Monitor
- Extra space for one additional 8cm fan

Mechanical Drawing



Construction

- Zinc Coated Steel with Aluminum Alloy front

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (4) 5.25", (1) 3.5" for external, (2) 3.5" for internal

Expansion

- (7) slots for full size add-on cards

Power Supply

- PS/2 power supply

Cooling System

- 12 cm front fan with air filter, (1) 8 cm fan on the rear and environmental monitoring board. (1) extra space for additional 8cm fan

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (1) HDD LED
- Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 176.8 (H) mm
- 16.8 (W) x 18.9 (D) x 7 (H) inches

Operating Temperature

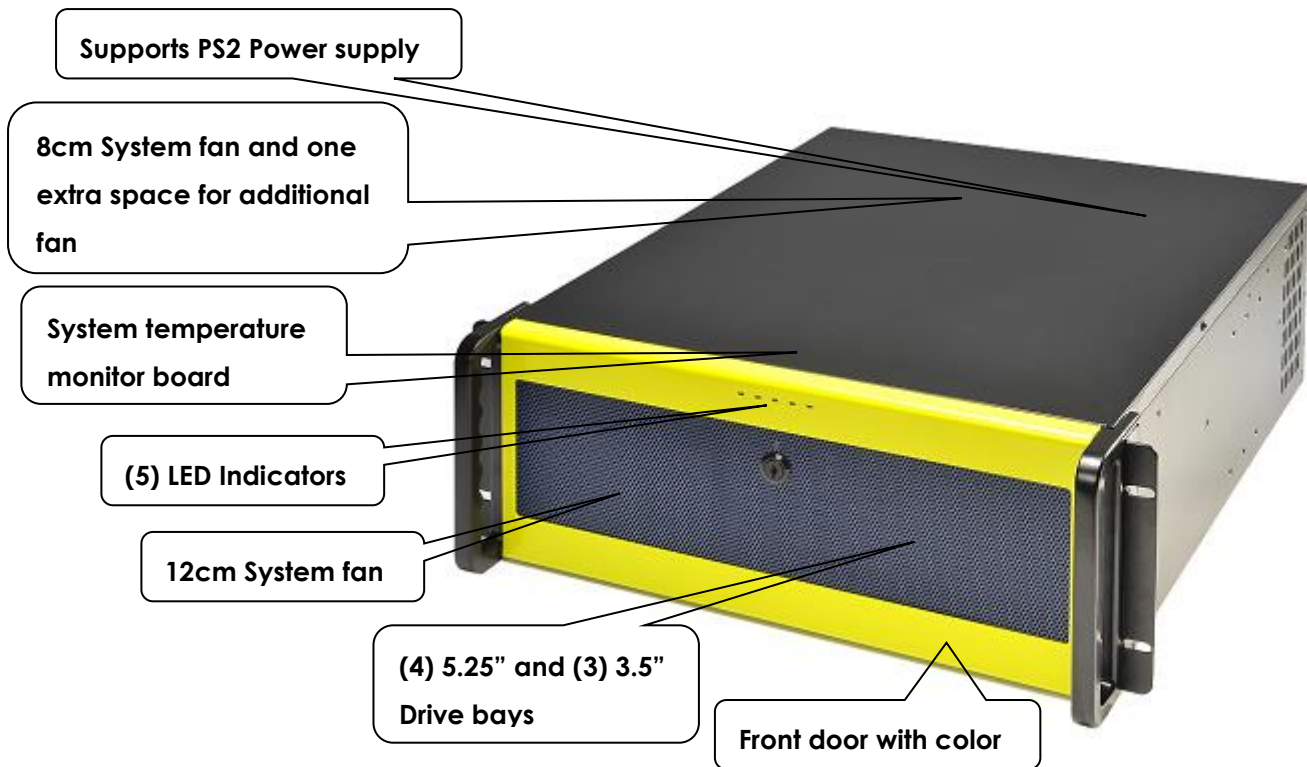
- 0~55 °C

Net/Gross Weight

- 12Kgs/15.6Kgs

Ordering Information

RCK-407MA	4U chassis for ATX motherboard
RCK-407MA-400W	RCK-407MA with 400W PS/2 Power Supply
MT-SR01	Optional slide rail



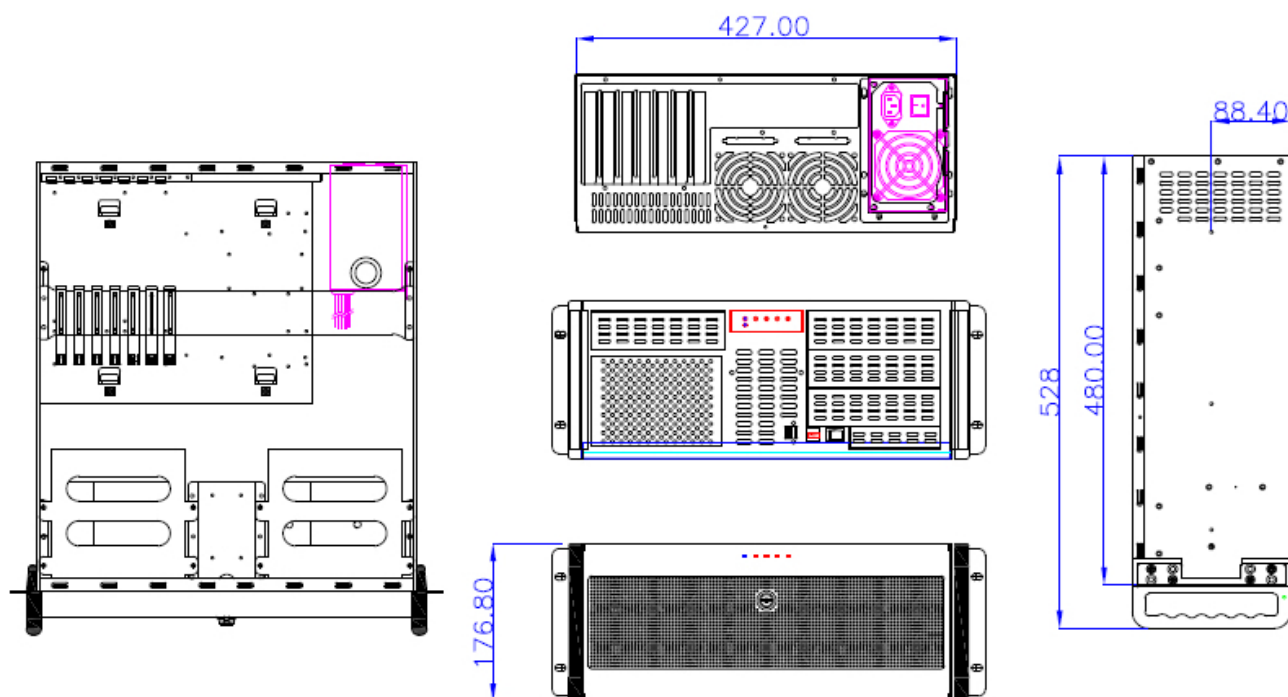
Introduction

The **RCK-407MT** 4U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using ATX/EATX motherboard, with four 5.25" and one 3.5" external bays, and two 3.5" internal bays. Two levels temperature management relies on one 12cm fan on the front and 8cm fan on the rear, and System Temperature Monitor that warns users when the system temperature is above normal. **RCK-407MT** offers 5 LEDs in the front panel in order to let users monitor the system status easily. The chassis front door can be customized with your own color and logo, allowing you to differentiate yourself from your competitors.

Features

- Standard 4U 19" Rackmount Chassis
- Front 5 LED indicator to monitor System power, HDD activity, Fans and Heat sensors
- Heavy Duty Steel
- Single front door with Color and Lockable door
- (4) 5.25", (1) 3.5" external drive bays, and (2) 3.5" internal drive bays
- Two USB 2.0 ports
- Built-in System temperature monitor

Mechanical Drawing



Construction

- Zinc Coated Heavy Duty Steel

Color

- Black

Board Support

- ATX /EATX Motherboard

Drive Bays

- (4) 5.25" and (1) 3.5" for external, and (2) 3.5" for internal Drive bays

Expansion

- (7) slots for full size add-on cards

Power Supply

- PS/2 Power supply

Cooling System

- (1) 12 cm front fan with air filter, (1) 8 cm fan on the rear, and Temperature monitor board
- One extra space for additional 8cm fan

Ports

- (2) USB 2.0 ports on front panel

Switches

- ATX On/Off Switch and Reset Switch

Indicators

- Power, HDD, Fan, S1 and S2 Heat sensor LEDs

Dimensions

- 482.6 (W) x 480 (D) x 176.8 (H) mm
- 19 (W) x 18.9 (D) x 7 (H) inches

Operating Temperature

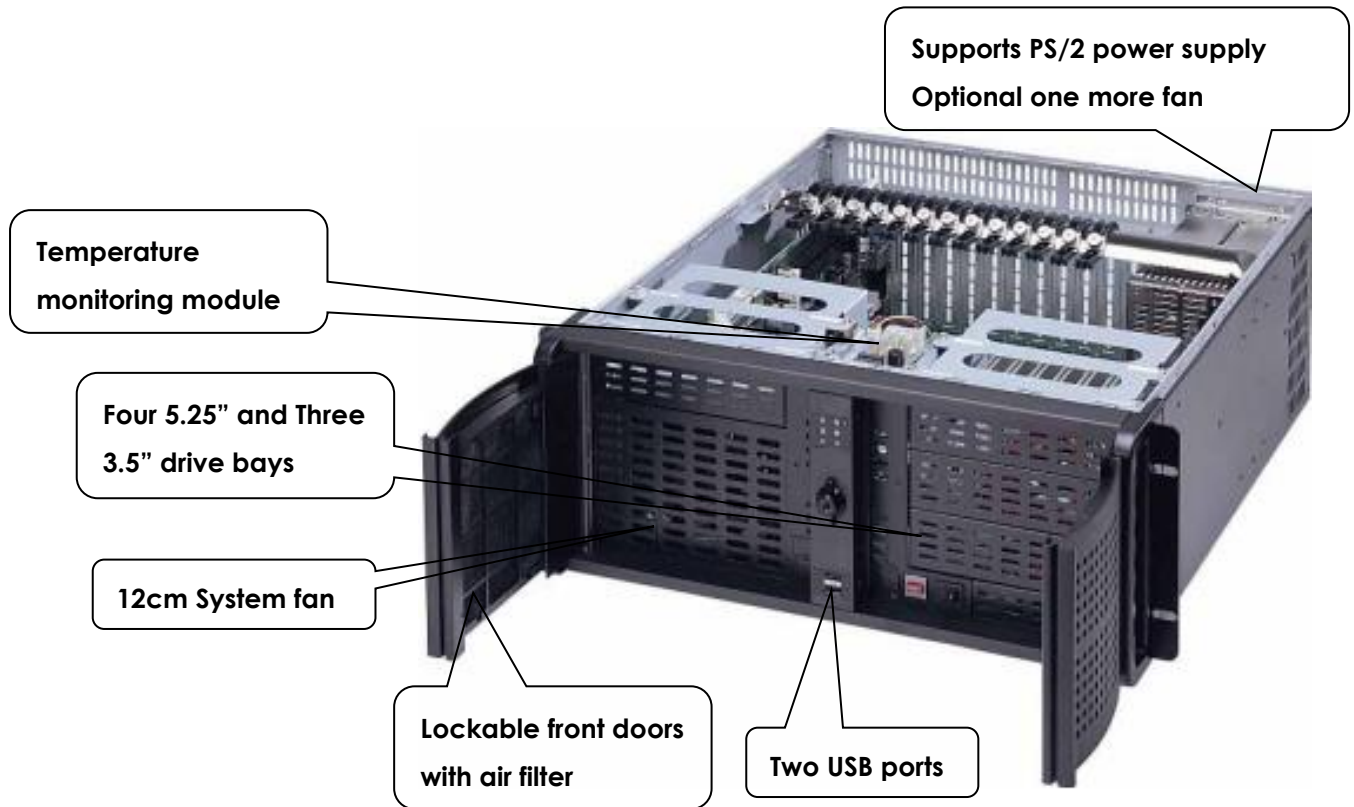
- 0~55 °C

Gross Weight

- 16kg / 35.2lbs

Ordering Information

RCK-407MT	4U chassis for ATX /EATX M/B
RCK-407MT-400W	4U chassis with 400W PS2 ATX Power supply
MT-SR01	Optional 18" Slide rail
MT-SR02	Optional 24" Slide rail



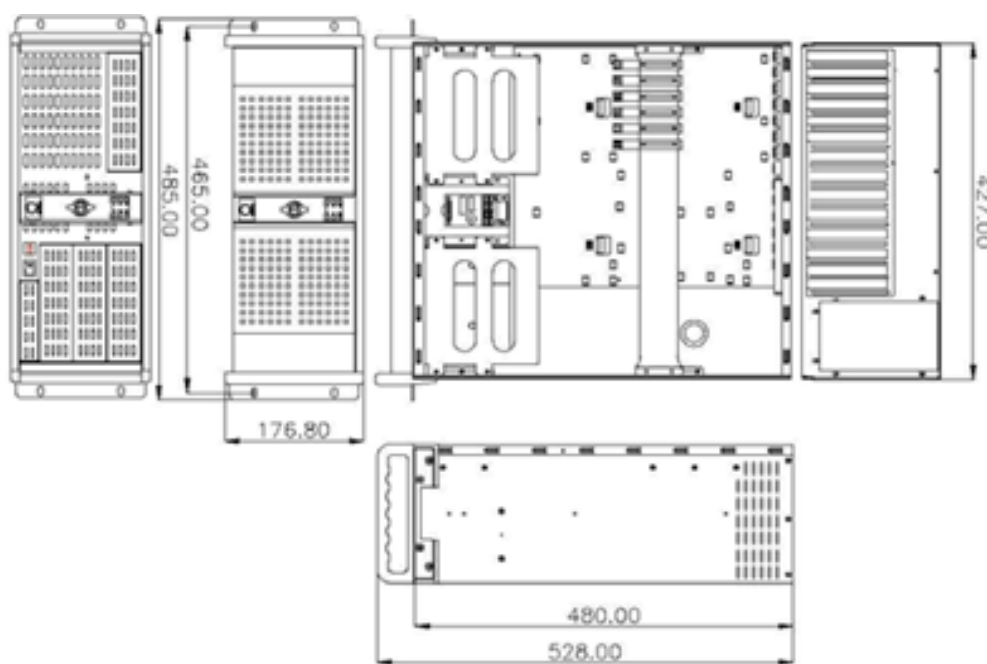
Introduction

The **RCK-407BA** 4U Rack mount Chassis provides a classy and resourceful solution for a variety of Industrial applications using single board computer with backplane. Besides external four 5.25" bays and one 3.5" bays, **RCK-407BA** offers two internal 3.5" shock resistive drive bays. Two levels temperature management relies on one ball bearing 12cm fan on the front and System Environmental Monitor that warns users when the system temperature is above normal. **RCK-407BA** offers two alternative positions for two 2.0 USB ports & supports 4U ATX Power Supplies.

Features

- Standard 4U 19" Rackmount Chassis
- Heavy Duty Steel with Ni plating
- Front Panel with Lockable Doors
- (4) 5.25", (1) 3.5" FDD, (2) 3.5" internal HDD drive bays in two shock-resistant cages
- Two 2.0 USB ports
- 14-slot backplane & System Environmental Monitor supported

Mechanical Drawing



Construction

- Zinc Coated Steel with Aluminum Alloy front bezel

Color

- Black

Board Support

- 14-slot backplane

Drive Bays

- (4) 5.25", (1) 3.5" for external, (2) 3.5" for internal

Expansion

- Depends on Backplane

Power Supply

- PS/2 power supply

Cooling System

- 12 cm front fan with air filter

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (1) HDD LED
- Fan & Alarm

Dimensions

- 427 (W) x 480 (D) x 176.8 (H) mm
- 16.8 (W) x 18.9 (W) x 7 (H) inches

Operating Temperature

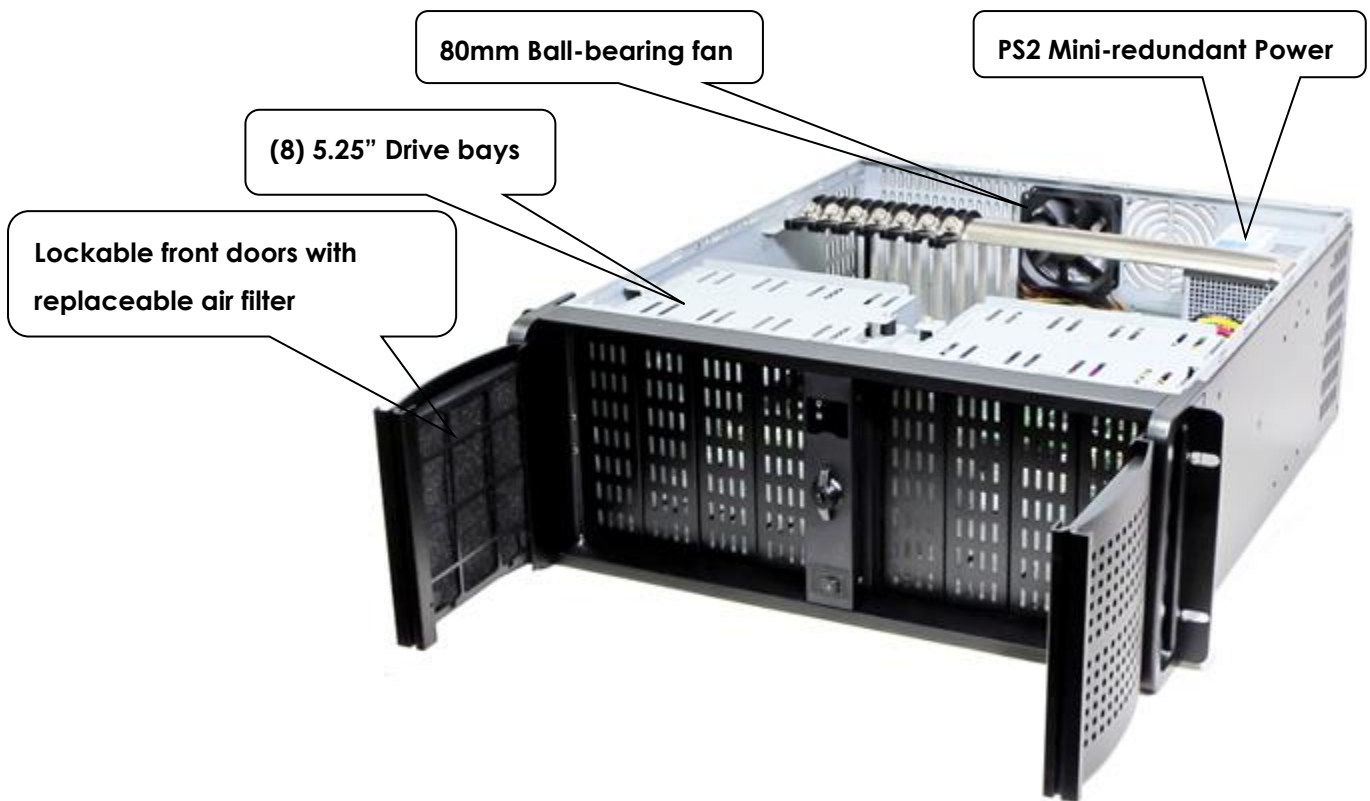
- 0~55 °C

Gross Weight

- 15.5kg/34.1lbs

Ordering Information

RCK-407BA	4U chassis for backplane with SBC
RCK-407BA-400W	RCK-407BA with 400W PS/2 PFC Power Supply
RCK-407BA-400WR	RCK-407BA with 400W mini redundant PFC Power Supply



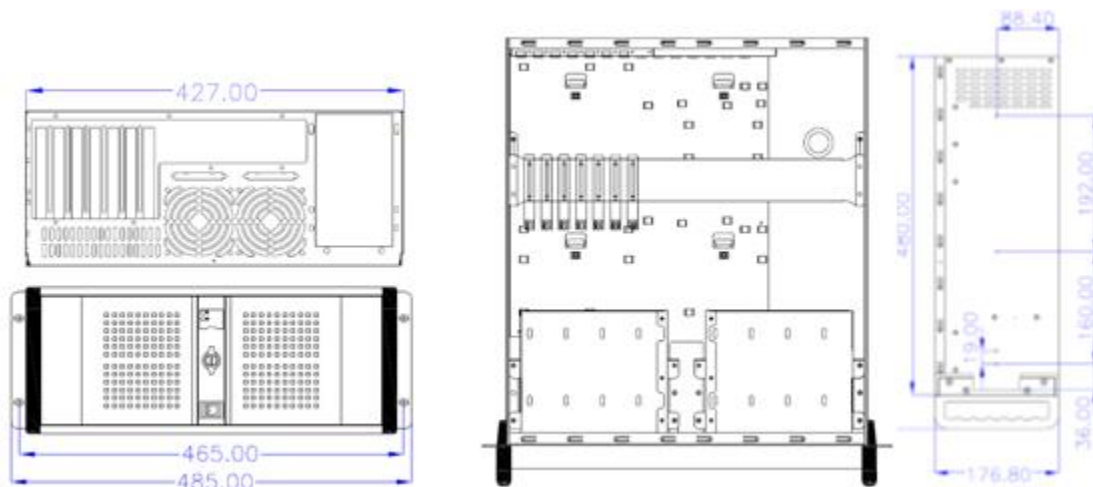
Introduction

RCK-408M is specifically designed for storage server application. Despite of its short depth, it provides a high capacity of eight 5.25" external Drive bays, or up to two 5.25" and ten 3.5" external Drive bays by mobile racks, suitable to contain large amount of data. Appropriate temperature within **RCK-408M** is secured by one 80mm ball-bearing fan with optional second 80mm fan. PS2 Mini-redundant power supply is applicable to ensure minimum down time of the system. **RCK-408M** is very suitable for RAID application for small to large companies.

Features

- 19" Rackmount 4U Height
- Heavy-duty Steel, Black
- Supports ATX Motherboard
- (8) 5.25" external Drive bays
- Up to (10) 3.5" SATA HDD Mobile rack (optional)
- (1) 80mm ball-bearing fan, with (1) extra space for one additional 8cm fan
- Dual Lockable Front doors with replaceable Air Filters
- Supports PS2 or Mini-redundant PSU
- Optional Slide rail

Mechanical Drawing



Introduction

- Heavy-Duty Steel, SECC 1.2t

Color

- Black

Board Support

- ATX motherboard

Drive Bays

- (8) 5.25" external Drive bays
- Optional (10) 3.5" HDD mobile racks

Expansion

- Up to (7) expansion slots

Power Supply

- PS2 or Mini-redundant Power supply

Cooling System

- (1) 8cm fan on rear panel, with
(1) extra space for additional 8cm fan

Switches

- On/Off Power Switch

Indicators

- Power On/Off LED
- HDD Activity LED

Dimensions (W x D x H)

- 427 x 480 x 176.8 mm
- 16.8 x 18.9 x 7 inches

Operating Temperature

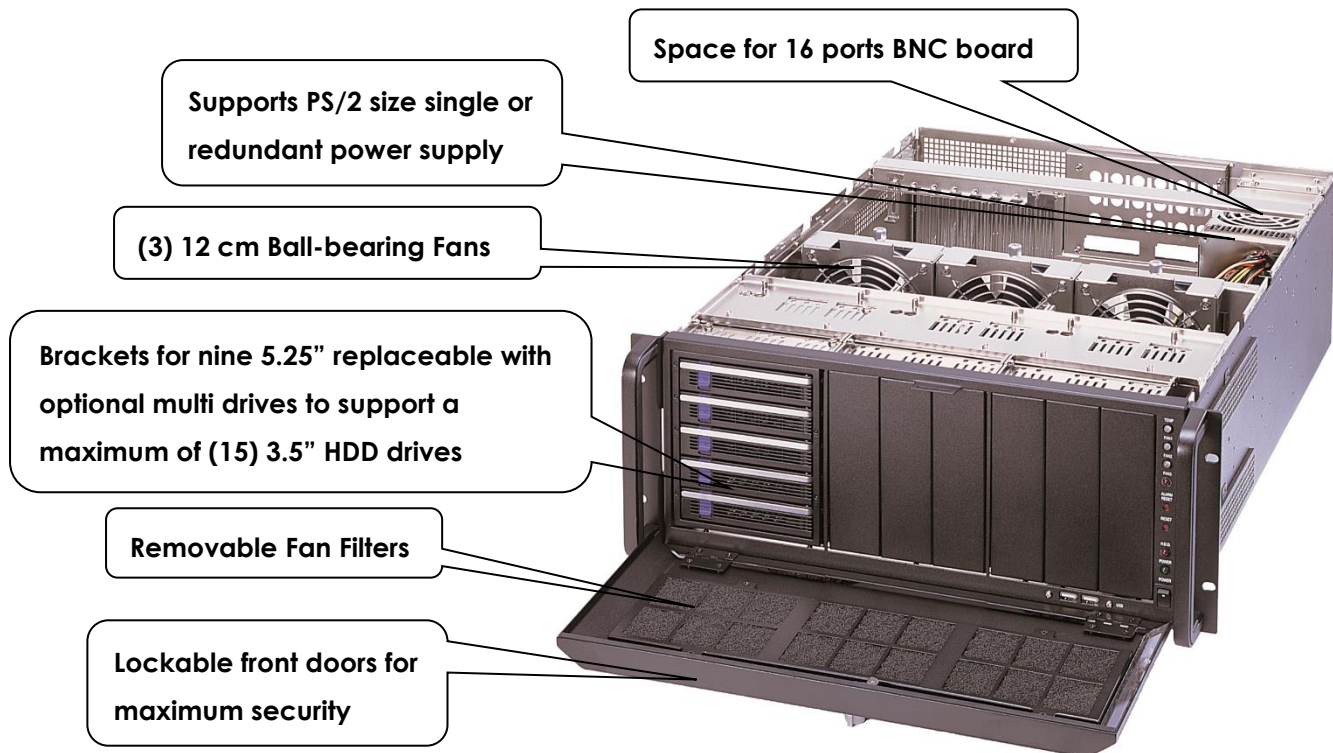
- 0~55 °C

Gross Weight

- 15kgs/36.1lbs

Ordering Information

RCK-408M	4U chassis for ATX motherboard with (10) 5.25" Drive bays
RCK-408M-400W	4U chassis for ATX motherboard with (10) 5.25" Drive bays, and 400W ATX PSU
RCK-408M-600W	4U chassis for ATX motherboard with (10) 5.25" Drive bays, and 600W ATX PSU
RCK-408M-400WR	4U chassis for ATX M/B with (10) 5.25" Drive bays, and 400W Redundant ATX PSU
RCK-408ME	4U chassis for ATX motherboard with (10) 5.25" Drive bays, chassis depth 708mm
MR-K23C5	Mobile rack for (5) 3.5" SATA Hard disks
MT-SR01	Optional 18-inch Slide rail



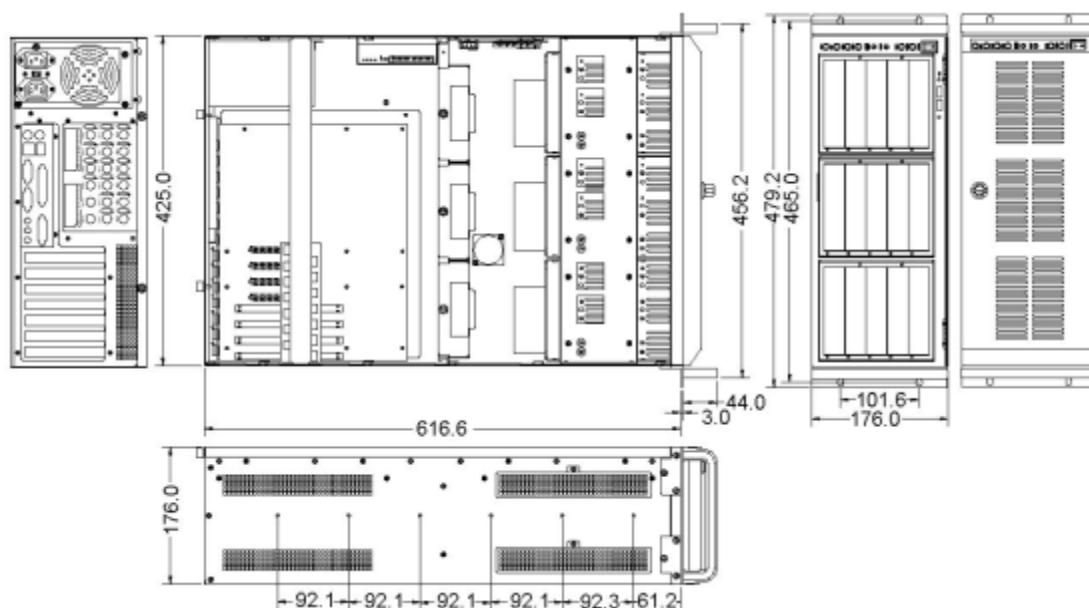
Introduction

The **RCK-410DA** 4U Rackmount Chassis was designed for enterprise DVR application that requires vast amount of HDDs. It supports (9) 5.25" drives or if using optional multi drive modules, supports up to (15) hot-swappable 3.5" drive bays that can be translated into a total of 3.75 Terabytes recording capacity or more than 60 days of 24 hours recording (using 16 cameras, 15 FPS per camera, 640x480 resolution). One internal 3.5" HDD space is also provided for system's OS. Two levels of temperature management relies on (3) ball-bearing 12cm fans that provide excellent cooling and a System Environmental Monitor that warns users when the system temperature is above normal. **RCK-410DA** supports a window for BNC board modifiable to fit user's BNC board

Features

- Standard 4U 19" Rackmount Chassis support ATX motherboard
- Heavy Duty Steel with Ni plating RoHS compliant
- Front Panel with Lockable Door to Protect Drives
- (9) 5.25", (1) 3.5" internal HDD drive bays
- Optional Multi Drives Module, supports a total 3.75 Terabytes recording capacity or more than 60 days of 24 hours recording (using 16 cameras, 15 FPS per camera, 640x480 resolution)
- (2) 2.0 USB ports
- (3) 12 cm fan and System Environmental Monitor
- Modifiable BNC plate to fit customer' BNC board

Mechanical Drawing



Construction

- Heavy-Duty Steel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (9) 5.25" and (1) 3.5" internal drive. Supports Optional Multi Drive Module

Expansion

- (7) slots for full size add-on cards

Power Supply

- PS/2 power supply

Cooling

- (3) 12 cm fans with replaceable air filter and environmental monitoring board

Ports

- (2) USB2.0 ports on front panel

Indicators

- Power ON/OFF LED
- (1) HDD LED
- (1) REC LED

Switch

- Power ON/OFF, Safety System Reset

Dimension

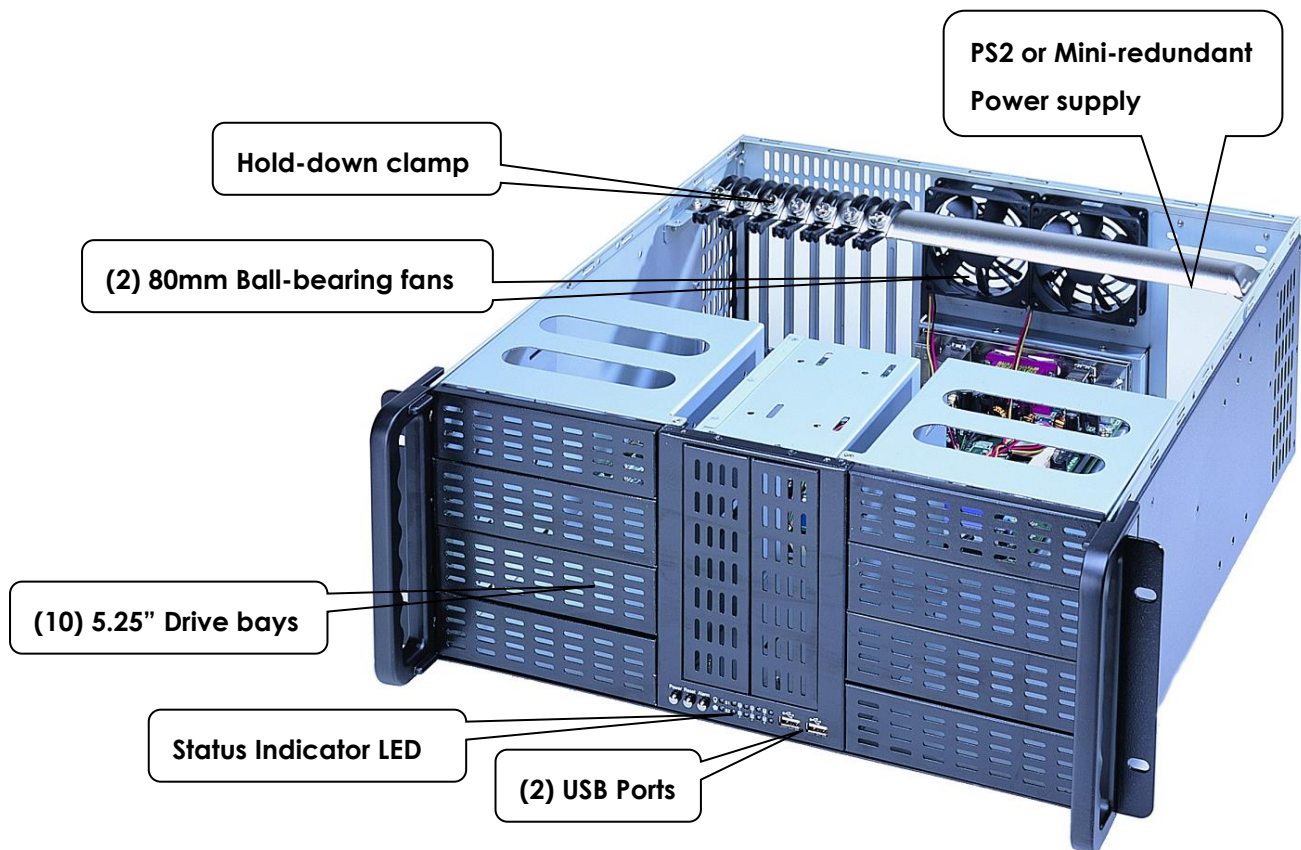
- 425(W) x 616.6 (D) x 176(H) mm
- 16.7 (W) x 24.2 (D) x 6.9 (H) inches

Gross Weight

- 21.6kg/47.6lbs

Ordering Information

- RCK-410DA** 4U chassis for ATX motherboard with (9) 5.25", (1) 3.5" Internal drive bays BNC
- MR-J23C5** Optional multi drive module supports (5) 3.5" HDD in the space of (3) 5.25" drive bay



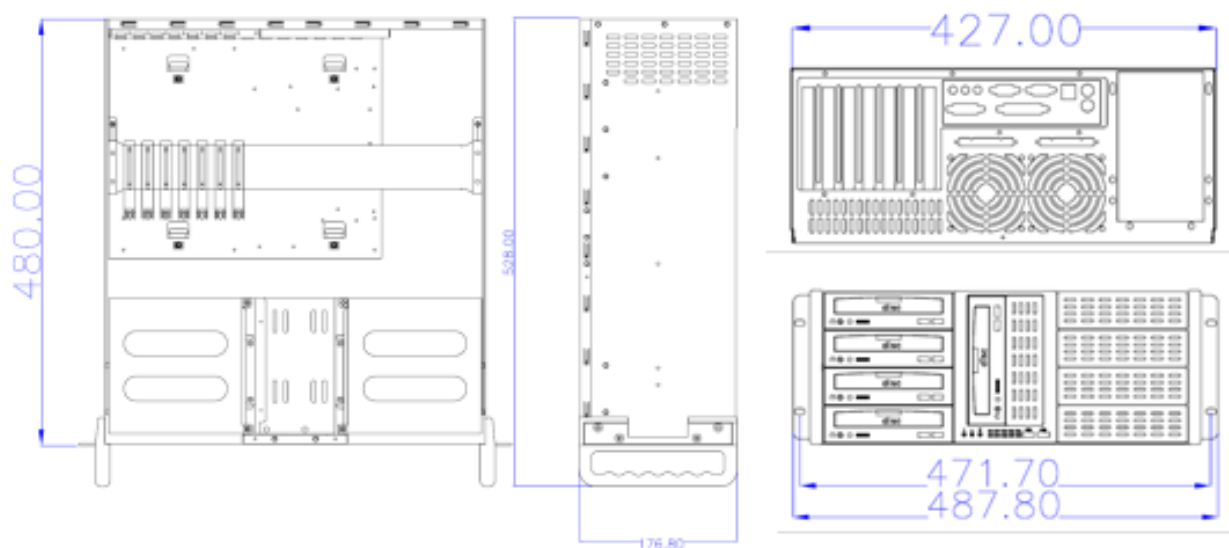
Introduction

RCK-410M is specifically designed for storage server application. Despite of its short depth, it provides a high capacity of ten 5.25" mobile racks applicable drive bays to contain large amount of data. Appropriate temperature within **RCK-410M** is secured by two 80mm high speed ball-bearing fans. Mini-redundant PS2 size power supply is applicable to ensure minimum down time of the system. **RCK-410M** is very suitable for RAID application for small to large companies.

Features

- Standard 4U 19" RAID storage chassis
- Heavy Duty Steel with Ni Plating
- Supports ATX Motherboard
- Up to (10) 5.25" SATA HDD Mobile rack (Optional)
- Two 2.0 USB ports
- Two 80mm ball-bearing fans
- Temperature monitor board
- Status indicator LED
- Supports PS2 or Mini-redundant Power supply

Mechanical Drawing



Construction

- Heavy-Duty Steel with Ni Plating

Color

- Black

Board Support

- ATX motherboard

Drive Bays

- (10) 5.25 external Drive bays
(optional SATA Mobile rack applicable)

Expansion

- Up to (7) expansion slots

Power Supply

- PS2 or Mini-redundant Power supply

Cooling System

- (2) 80mm high speed ball-bearing fans

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED
- (6) HDD Activity LED
- (2) Temperature Sensor LED
- (1) Fan Failure LED

Dimensions (W x D x H)

- 427 x 480 x 176.8 mm
- 16.8 x 18.9 x 7 inches

Operating Temperature

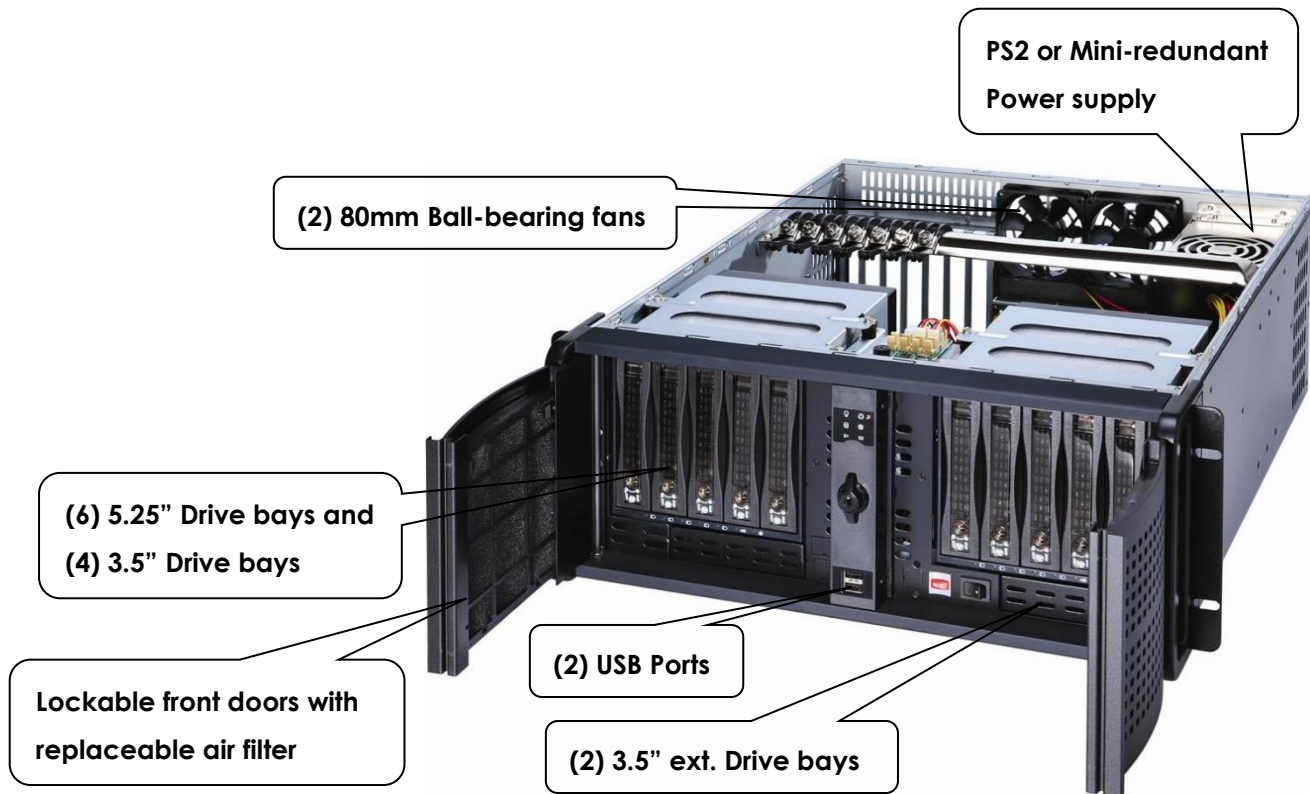
- 0~55 °C

Gross Weight

- 13.4kg/29.5lbs

Ordering Information

RCK-410M	4U chassis for ATX motherboard with (10) Drive bays
RCK-410M-400W	4U chassis for ATX motherboard with (10) Drive bays, and 400W ATX PSU
RCK-410M-600W	4U chassis for ATX motherboard with (10) Drive bays, and 600W ATX PSU
RCK-410M-400WR	4U chassis for ATX motherboard with (10) Drive bays, and 400W Redundant PSU
MR-K23C5	Optional Mobile rack with (5) 3.5" SATA drive bays
MT-SR01	Optional 18inch Ball-bearing Slide rail



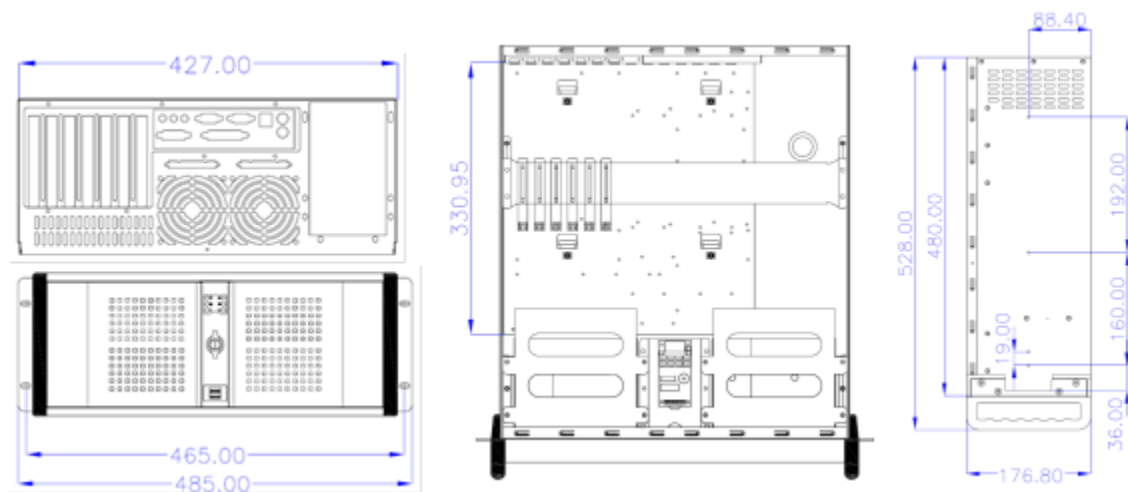
Introduction

RCK-410MA is specifically designed for storage server application. Despite of its short depth, it provides a high capacity of ten 3.5" mobile racks applicable drive bays to contain large amount of data. Appropriate temperature within **RCK-410MA** is secured by two 80mm high speed ball-bearing fans. PS2 Mini-redundant power supply is applicable to ensure minimum down time of the system. **RCK-410MA** is very suitable for RAID application for small to large companies.

Features

- EIA RS-310C 19" Rackmount 4U Height
- Heavy duty Steel, Black
- Supports ATX/EATX Motherboard
- (6) 5.25" external, (2) 3.5" external, and (2) 3.5" internal Drive bays
- (2) 2.0 USB ports
- (2) 80mm ball-bearing fans
- Temperature monitor board
- Dual Lockable Front doors with replaceable Air Filters
- Up to (10) 3.5" SATA HDD Mobile rack (optional)
- Supports PS2 or Mini-redundant PSU

Mechanical Drawing



Construction

- Heavy-Duty Steel, SECC 1.2t

Color

- Black

Board Support

- ATX/EATX motherboard

Drive Bays

- (6) 5.25" and (4) 3.5" Drive bays
- Optional (10) 3.5" HDD mobile racks

Expansion

- Up to (7) expansion slots

Power Supply

- Mini-redundant or PS2 Power supply

Cooling System

- (2) 8cm fans with replaceable air filter and environmental monitor board

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power On/Off LED
- (1) HDD Activity LED
- (1) Fan Failure LED
- (1) Alert Reset LED
- (2) Thermal Status LED

Dimensions (W x D x H)

- 427 x 480 x 176.8 mm
- 16.8 x 18.9 x 7 inches

Operating Temperature

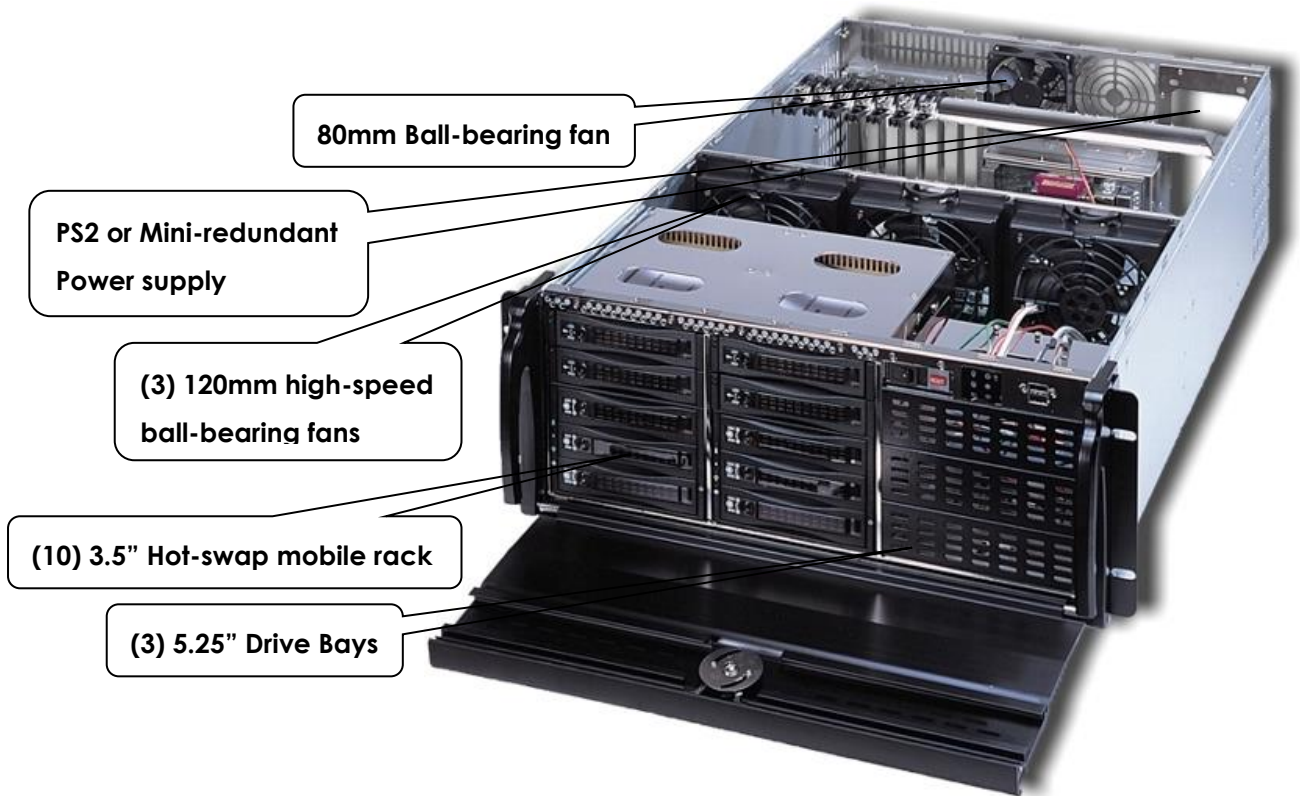
- 0~55 °C

Gross Weight

- 15.5kgs/34.1lbs

Ordering Information

RCK-410MA	4U chassis for ATX/EATX motherboard with (10) Drive bays
RCK-410MA-400W	4U chassis for ATX/EATX M/B with (10) Drive bays, and 400W ATX PSU
RCK-410MA-600W	4U chassis for ATX/EATX M/B with (10) Drive bays, and 600W ATX PSU
RCK-410MA-400WR	4U chassis for ATX/EATX M/B with (10) Drive bays, and 400W Redundant PSU
MR-K23C5	Optional mobile rack with (5) 3.5" SATA drive bays
MT-SR01	Optional 18inch Ball-bearing Slide rail



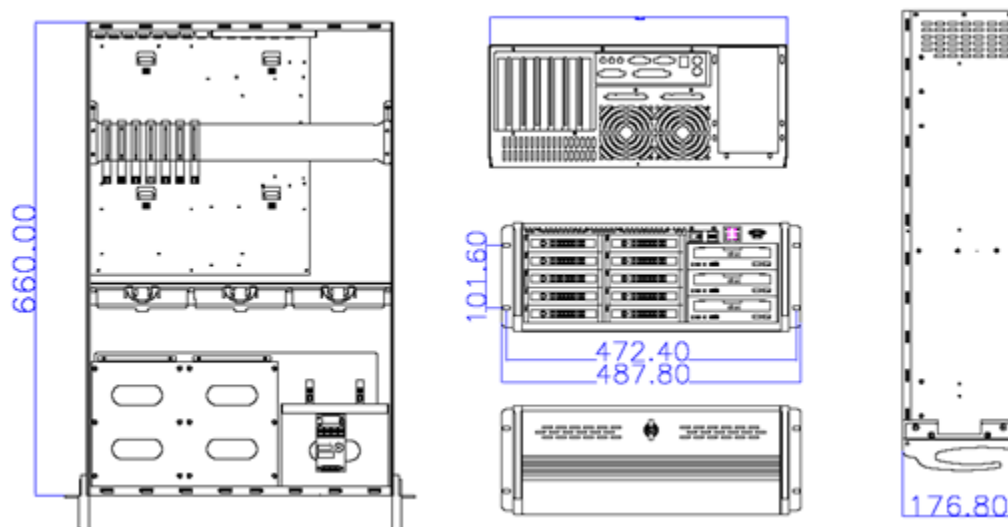
Introduction

RCK-413M is specifically designed as storage server. Within its long chassis it provides capacity of ten 3.5" Hotswap mobile-rack and three 5.25" applicable drive bays to contain large amount of data. Appropriate temperature within **RCK-413M** is sustained by one 80 mm and three 120mm high speed ball-bearing fans. Mini-redundant power supply is applicable to ensure minimum down time of the system. A lockable front cover is provided with **RCK-413M** to prevent unauthorized access to the unit. **RCK-413M** is very suitable for RAID application

Features

- Standard 4U 19" RAID storage chassis
- Heavy Duty Steel with Ni Plating
- Ten 3.5" HDD (hotswap mobile rack applicable) and three 5.25" drive bays
- Supports mini-redundant or PS/2 power supply
- One 80mm and three 120mm high speed ball-bearing fans

Mechanical Drawing



Construction

- Heavy-Duty Steel with Ni Plating

Color

- Black

Board Support

- ATX motherboard

Drive Bays

- (10) 3.5" hot-swap mobile rack and (3) 5.25 external drive bays (Mobile rack applicable)

Expansion

- Up to (7) expansion slots

Power Supply

- Mini-redundant or PS/2 power supply

Cooling System

- 80mm and (3) 120mm high speed ball-bearing fans

Ports

- (2) USB2.0 ports on front panel

Switches

- On/Off Switch and Reset Switch

Indicators

- Power ON/OFF LED
- (2) Temperature Sensor LED
- Fan condition

Dimensions

- 427 (W) x 660 (D) x 176.8 (H) mm
- 16.8 (W) x 26 (D) x 7 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 22.3kg/49lbs

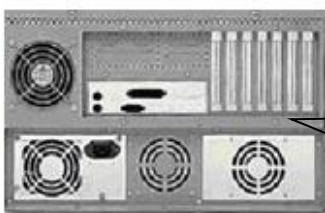
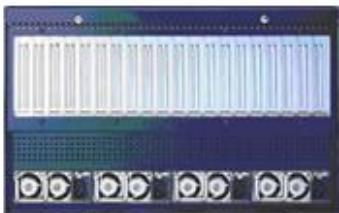
Ordering Information

RCK-413M	4U chassis for data storage server with (10) drive bays
RCK-413M-400WR	Same as above and with 400W mini redundant power supply

6U Ruggedized Industrial Chassis



The Global Choice for Premium Industrial Computer Products

**Detachable Card****Replaceable
Function Panel****Replaceable rear panel to support
Backplane and ATX motherboard**

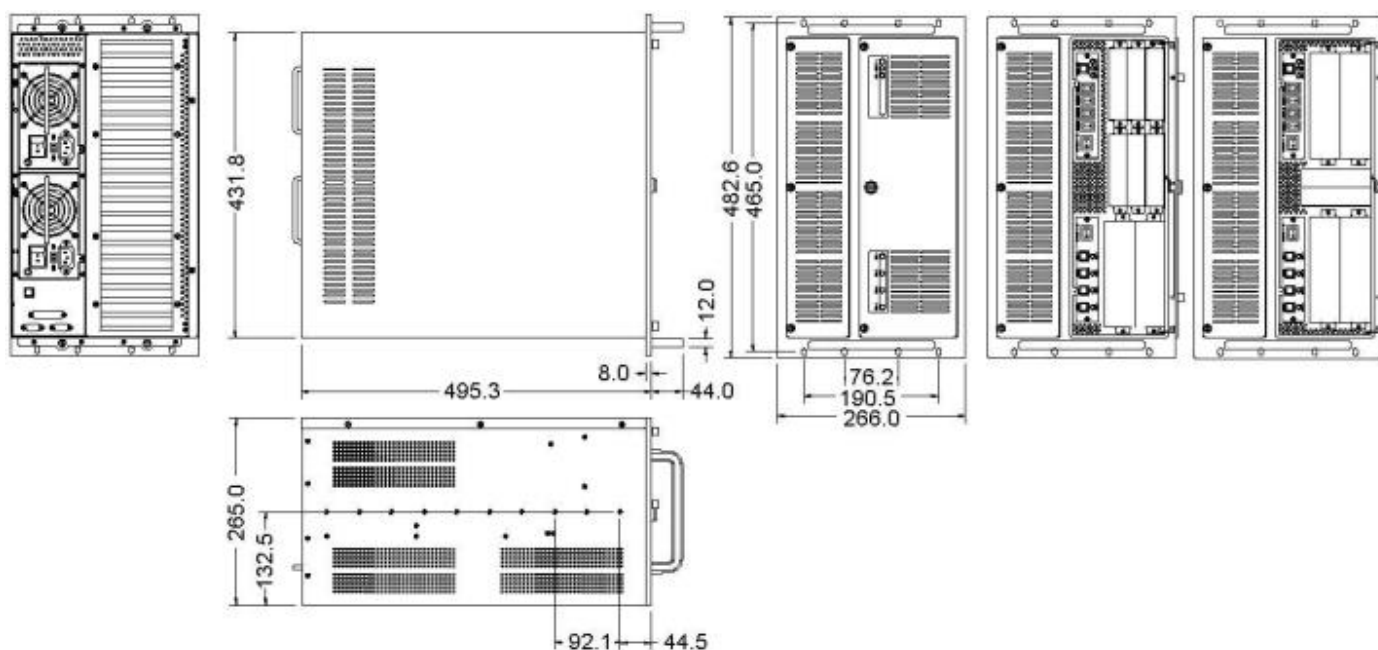
Introduction

The **RCK-606/608** 6U Rackmount Chassis was specially designed for Computer Telephony Integration (CTI) and for fault tolerant server applications. The chassis provides two drive bays combination for different applications. **RCK-606** supports four 5.25" + two 3.5" drive bays and **RCK-608** supports two 5.25" + six 3.5" drive bays, suitable for RAID related applications. The combination of roomy space, separation of system boards and power supply plus three powerful 120mm fans ensures high reliability for any heat sensitive applications. Detachable card cage offer integrators the ease of installation and maintenance.

Features

- Standard 6U 19" Rackmount Chassis.
- Front Panel with Lockable Doors to Protect Drives
- Two drives combinations : (4) 5.25" & (2) 3.5" or (2) 5.25" & (6) 3.5" drive bays for different applications.
- Replaceable rear panel to support either backplane or ATX motherboard.
- Replaceable power supply bracket to support both standard PS/2, dual PS/2 redundant power supplies.
- Detachable card cage for easy installations and maintenance.

Mechanical Drawing



Construction

- Heavy Duty Steel with Aluminum front bezel

Color

- Black/Dark Grey

Board Support

- 14/19/20 slot backplane or ATX Motherboard

Drive Bays

- RCK-606: (4) 5.25" & (2) 3.5"
- RCK-608: (2) 5.25" & (6) 3.5"

Expansion

- Depends on backplane or motherboard

Power Supply

- Supports single PS/2, Mini Redundant, Dual PS/2 redundant or any other power supplies based on OEM project

Cooling System

- (3) 12cm ball bearing fans with ventilations on top and on the sides of the chassis

Switches

- Resets and Keyboard Locks for Single, Dual, and Quad Systems

Indicators

- Modularized panel with HDD Active LED and Power ON/OFF LED

Dimensions

- 482 (W) x 495.3 (D) x 266 (H) mm
- 19 (W) x 19.5 (D) x 10.5 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 22kg/48.5lbs

Ordering Information

RCK-606B	6U Chassis with (4) 5.25" & (2) 3.5" Drive Bays, supports 14/19/20 slot backplanes
RCK-606M	6U Chassis with (4) 5.25" & (2) 3.5" Drive Bays, supports ATX motherboard
RCK-608B	6U Chassis with (2) 5.25" & (6) 3.5" Drive Bays, supports 14/19/20 slot backplanes
RCK-608M	6U Chassis with (2) 5.25" & (6) 3.5" Drive Bays, supports ATX motherboard

Ruggedized Wallmount Chassis



The Global Choice for Premium Industrial Computer Products



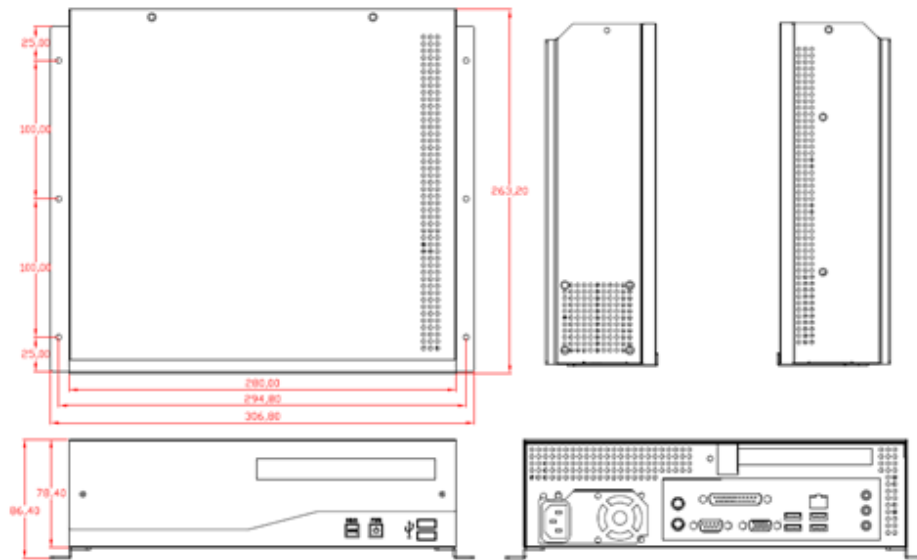
Introduction

GeNie-S03 is the compact chassis for Mini-ITX form factor, the Mini-ITX motherboard comes with 17CM x 17CM dimension, suitable for embedded system that require portable and low power consumption. **GeNie-S03** provides one expansion slot, supports up to (8) 2.5" SATA HDD Drive Bays or (2) 3.5" HDD Drive Bays

Features

- Mini-ITX Chassis with one expansion slot
- Supports up to (8) 2.5" SATA HDD Drive Bays or (2) 3.5" HDD Drive Bays
- Slim ODD drive bay (optional)
- 2.0 USB ports on front panel
- Different front Panel Color is available

Mechanical Drawing



Construction

- Heavy-Duty Steel, Aluminum Front Panel

Color

- Black, with replaceable Silver front panel

Board Support

- Mini-ITX motherboard (17x17 cm)

Drive Bays

- (2) 3.5", or (4) 2.5" with (1) slim ODD, or (8) 2.5" Max.

Expansion

- (1) 32-bit PCI or PCI-E Riser Card

Power Supply

- Flex ATX power supply 200W

Cooling System

- (1) 6cm Heavy Duty Ball Bearing Fan

Switches

- Power On/Off and reset switch

Indicators

- LED for Power ON/OFF, HDD Active, LAN Active

Dimensions

- 268 (W) x 280 (D) x 77 (H) mm
- 10.6 (W) x 11 (D) x 3 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 3.4kg

Ordering Information

GeNie-S03-01	Mini-ITX Chassis with (1) 3.5" drive bay, 200W power supply
GeNie-S03-02	Mini-ITX Chassis with (2) 3.5" drive bay, 200W power supply
GeNie-S03-03	Mini-ITX Chassis with (2) 2.5" & (1) slim ODD drive bay, 200W power supply
GeNie-S03-04	Mini-ITX Chassis with (4) 2.5" drive bay, 200W power supply
GeNie-S03-05	Mini-ITX Chassis with (4) 2.5" & (1) slim ODD drive bay, 200W power supply
GeNie-S03-06	Mini-ITX Chassis with (6) 2.5" drive bay, 200W power supply
GeNie-S03-08	Mini-ITX Chassis with (8) 2.5" drive bay, 200W power supply



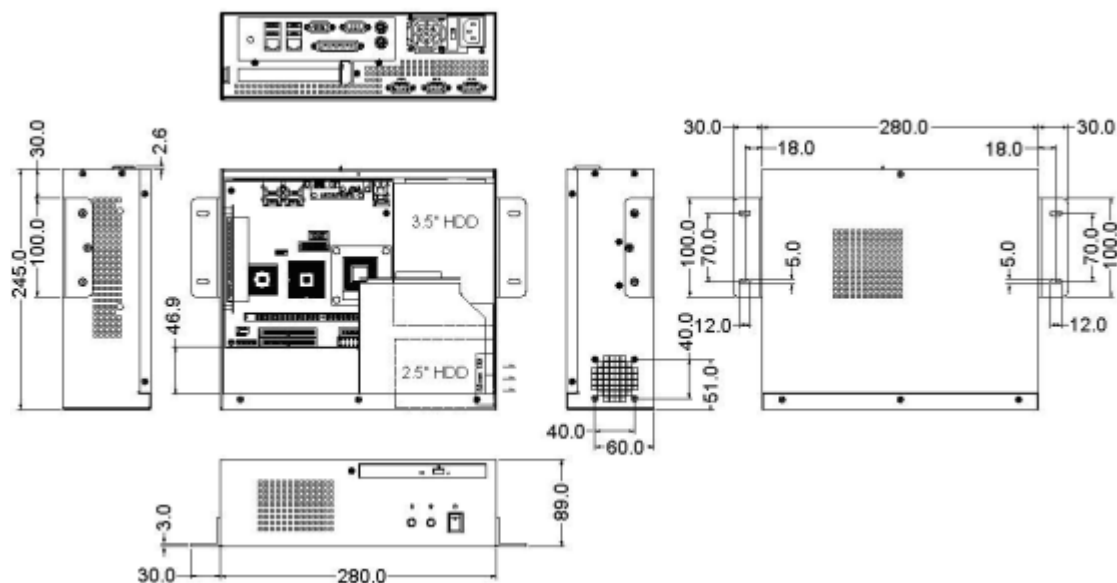
Introduction

WMC-103M is a compact wallmount industrial chassis designed for Pentium M / Celeron M Mini-ITX motherboard. Regardless its size, it supports a total of 3 drive bays ; (1) Slim CDROM, (1) 3.5" HDD and (1) 2.5" HDD, make it the best choice for applications that require separation of Operating System Disk and disk for data. **WMC-103M** offers expandability through a 1-slot PCI/PCI-E Riser Card. Although the chassis no doubt supports fanless operations of CPU board with lower speed Pentium M / Celeron M, one 52mm fan is provided for higher speed applications. The system is powered by up to 250W ATX power supply for Pentium M/Celeron M and optional power supply to support P4 CPU board.

Features

- Mini-ITX Chassis
- Heavy duty steel construction industrial chassis can be mounted vertically or horizontally
- Drive Bays for (1) Slim CDROM, (1) 3.5" HDD, and (1) 2.5" HDD.
- 52mm fan for higher speed applications.
- Supports (1) expansion slot through riser card
- Up to 250W ATX Power Supply

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- Slim CDROM, (1) 3.5", and (1) 2.5" internal drives for HDD

Expansion

- One Slot PCI/PCI-E 16x riser card

Power Supply

- Up to 250W ATX power supply

Cooling System

- 52mm Fan

Switches

- Power On/Off switch

Indicators

- Power on/off LED, and HDD LED

Dimensions

- 280 (W) x 245 (D) x 89 (H) mm
- 11 (W) x 9.6 (D) x 3.5 (H) inches

Operating Temperature

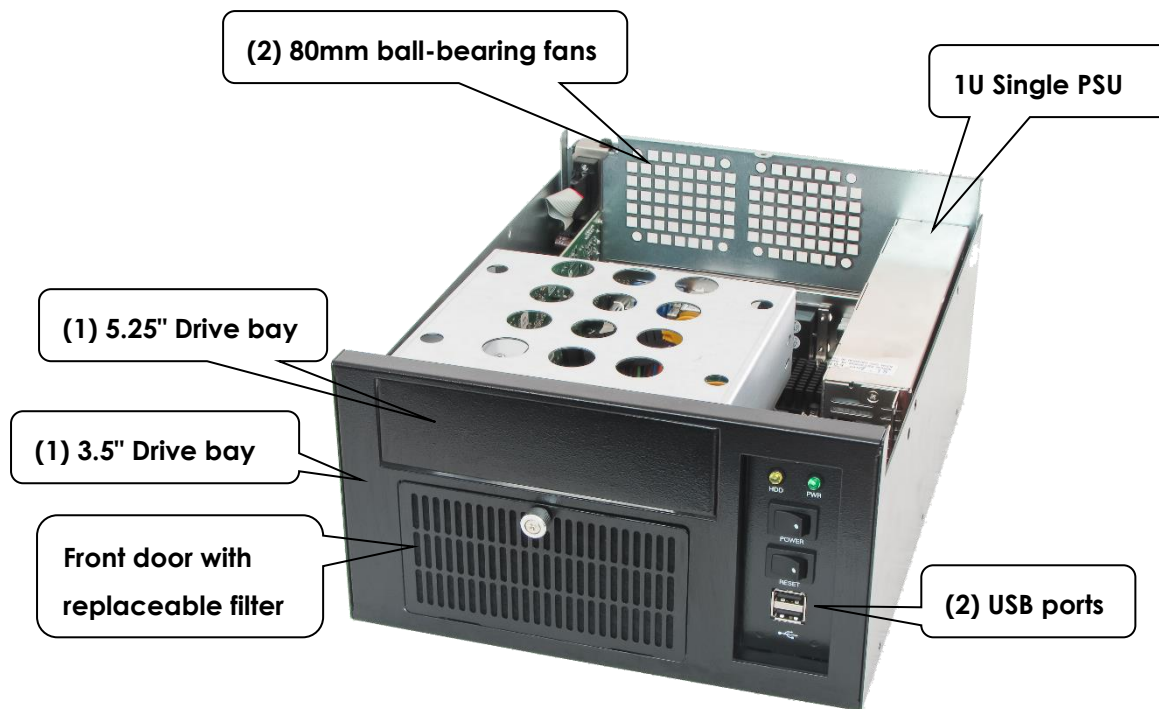
- 0~55 °C

Net/Gross Weight

- 2Kgs/3Kgs

Ordering Information

WMC-103M-200W	Mini-ITX Compact Wallmount Chassis with 3 Drive Bays, 1 PCI Riser Card with 200W PSU
WMC-103M-250W	With 250W (80PLUS Bronze) ATX power supply
WMC-103M	Mini-ITX Compact Wallmount Chassis
PCIE-101R	1-slot PCI-e 16x Riser Card



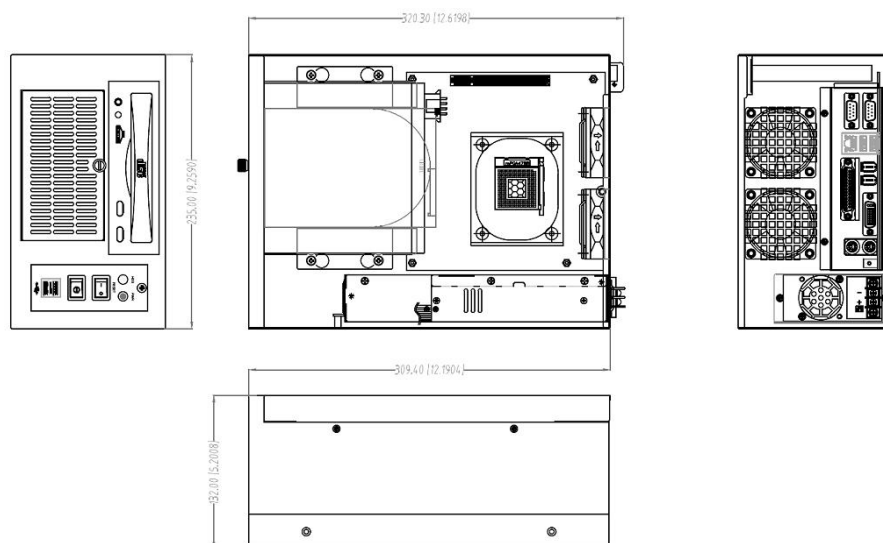
Introduction

The **WMC-302M** is designed to be an Industrial wall-mounted/ box system with one 5.25" external and one 3.5" internal Drive bays. The **WMC-302M** maintains a balanced internal temperature with two 80mm ball-bearing fans, front ventilation door with replaceable filter. **WMC-302M** offers robust solution for mounting your telecom, network, data center, imaging system, Server equipment in public area such as the CCTV surveillance recording or mobile broadcasting automation systems.

Features

- Heavy-duty Steel, Black
- Support Mini-ITX motherboard
- Front door with replaceable filter
- (1) 5.25" external drive bay
- (1) 3.5" internal drive bay
- (2) Front USB 2.0 ports
- (1) Full-height expansion slot
- (2) 80mm ball-bearing fans
- Support 1U single power supply

Mechanical Drawing



Construction

- Heavy-duty Steel, SECC 1.0t

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (1) 5.25" external drive bay
- (1) 3.5" internal drive bay

Expansion

- (1) Full-height expansion slot

Power Supply

- 1U Single power supply

Cooling System

- (2) 80mm ball-bearing fans

Switches

- Power On/Off switch

Ports

- (2) USB 2.0 on front panel

Indicators

- Power on/off LED, and HDD LED

Dimensions

- 235 (W) x 320 (D) x 132 (H) mm
- 9.25 (W) x 12.6 (D) x 5.19 (H) inches

Operating Temperature

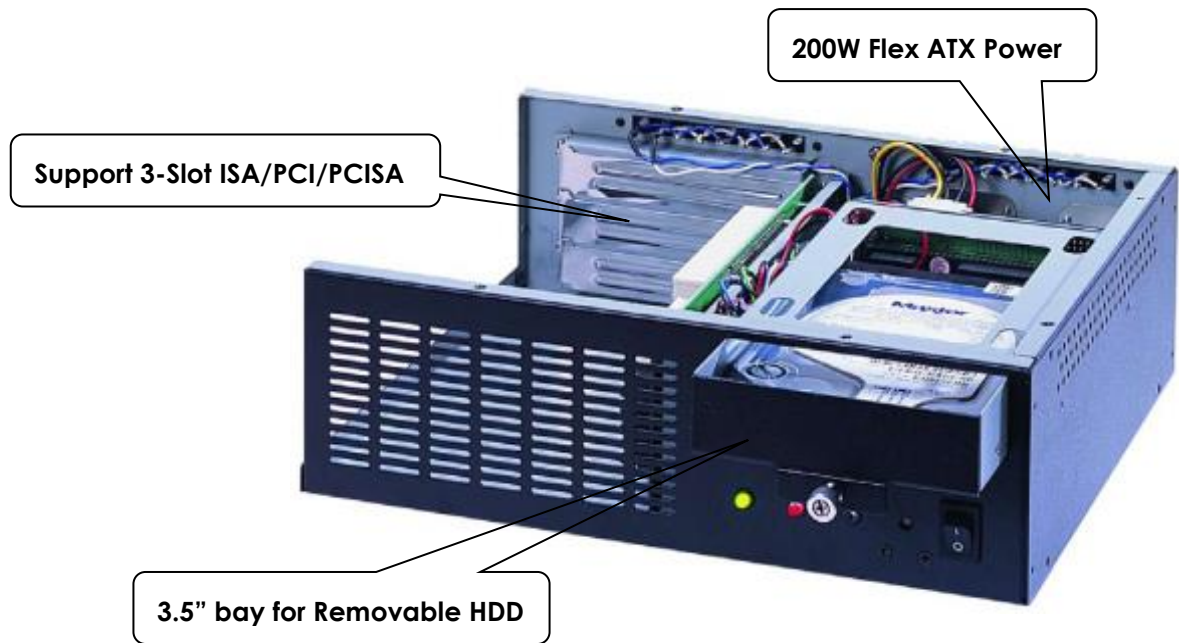
- 0~55 °C

Net/Gross Weight

- 3.2kg / 7.1lbs

Ordering Information

WMC-302M-BLK	Mini chassis for Mini-ITX MB with (1) 5.25" and (1) 3.5" Drive bays
WMC-302M-300W	Mini chassis for Mini-ITX MB with (1) 5.25" and (1) 3.5" Drive bays, with 300W PSU
WMC-302M-460W	Mini chassis for Mini-ITX MB with (1) 5.25" and (1) 3.5" Drive bays, with 460W PSU

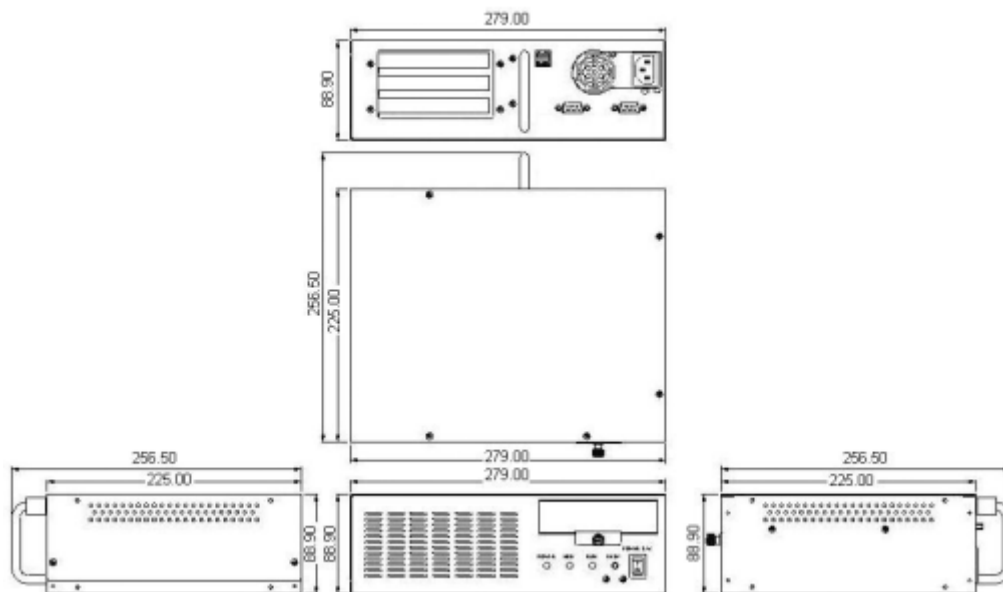


Introduction

The **WMC-301B** is a 3-slot mini "shoe-box" industrial wallmount chassis with only 280(W) x 90(H) x 225(D) mm for dimension. The **WMC-301B** is designed to support a 3-slot ISA/PCI/PCISA backplane for half size Single Board Computer cards. One of the strongest features that this new chassis has to offer is the easy removable mobile industrial frame for one 3.5" HDD with a backplane that can be accessed from front panel. This feature enables the replacement of the HDD for both KIOSK/ATM software upgrades and repair to be done in a very efficient time.

Features

- Heavy duty steel construction
- Easy removable industrial frame for one 3.5" HDD
- Fanless Design Suitable for Mini Low Power Automation Systems
- Supports 3-Slot ISA/PCI/PCISA Backplane
- Flex ATX 200W Power Supply

Mechanical Drawing**Construction**

- Heavy Duty Steel

Color

- Black

Board Support

- Half Size Low Power Single Board Computer.

Drive Bays

- One 3.5" Removable HDD with Lock

Expansion

- Supports 3-Slot ISA/PCI/PCISA backplane

Power Supply

- 200W Flex ATX power supply (included)

Cooling System

- Natural Convection and PSU Fan

Ports

- 2 USB Ports on Rear Panel

Switches

- Power On/Off switch

Indicators

- Power on/off LED, HDD LED, and one User Defined LED

Dimensions

- 279 (W) x 225 (D) x 89 (H) mm
- 11 (W) x 8.9 (D) x 3.5 (H) inches

Operating Temperature

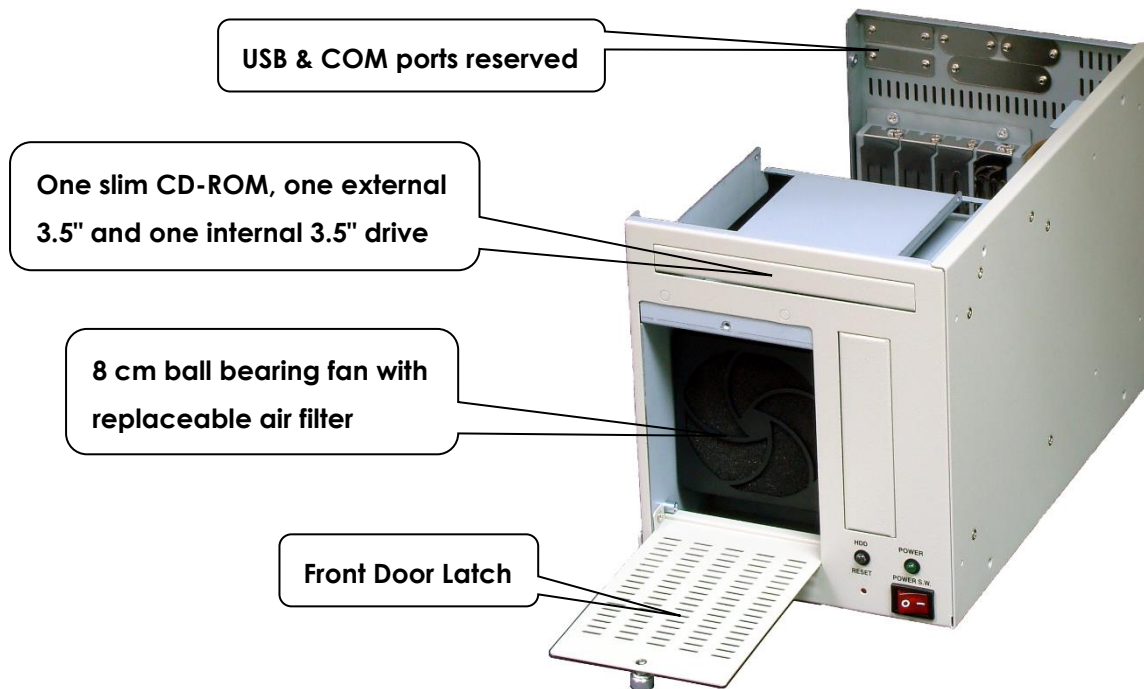
- 0~55 °C

Gross Weight

- 4.8kgs/10.5lbs

Ordering Information

WMC-301B 3-Slot Mini Shoebox Black Chassis with 200W Flex ATX power supply. Backplane ordered separately



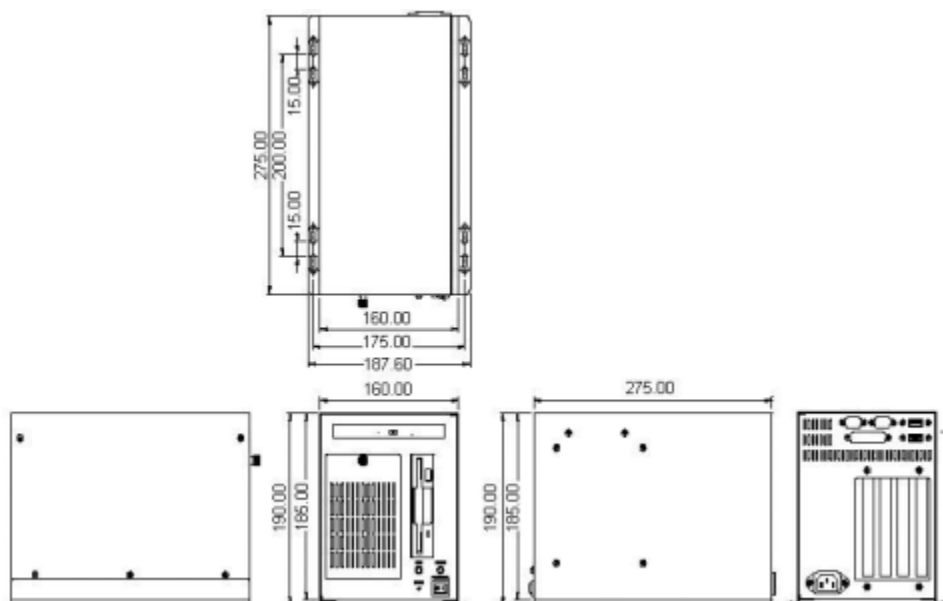
Introduction

The **WMC-403B** is a 4 slot mini "shoe-box" industrial wallmount chassis. Small yet rugged, the **WMC-403B** is constructed of heavy-duty steel and has an 8CM ball-bearing fan with replaceable filter. Designed to support "Plug-n-Play" SBC's, the **WMC-403B** comes standard with an ISA backplane. An open frame Power Supply and Drive Bay space for (1) Slim CD/DVD and (2) 3.5" HDD or FDD bays round out the features of the **WMC-403B**. The **WMC-403B** is the best choice for any Industrial Computing application where size is at a premium.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally.
- One slim CD-ROM drive-bay and two 3.5" drive bays (one hidden).
- 8cm ball bearing fan with replaceable air-filter
- 4-slot PCI or ISA backplane included
- Open Frame 70W AT/ 80W & 120W ATX power supply

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Beige

Board Support

- Half Size PIII/PIV Single Board Computer

Drive Bays

- (1) slim CD-ROM + (1) 3.5" external drive and (1) 3.5" internal drive

Expansion

- 4-slot PCI or ISA Backplane

Power Supply

- Open Frame 70W AT/ 80W & 120W ATX power supply

Cooling System

- One 8 cm ball bearing fan with replaceable air filter

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 160 (W) x 275 (D) x 190 (H) mm
- 6.3 (W) x 10.8 (D) x 7.5 (H) inches

Operating Temperature

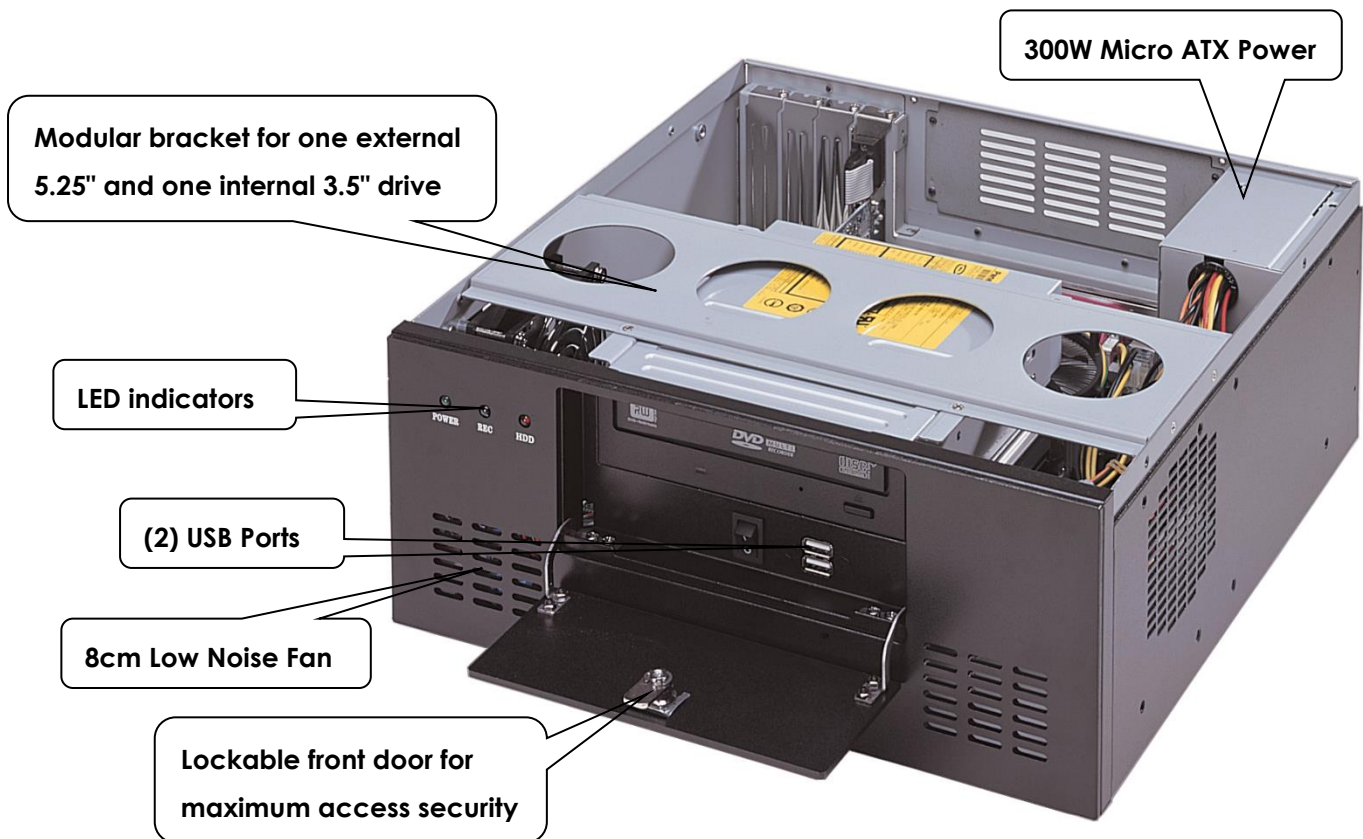
- 0~55 °C

Gross Weight

- 4.4kg/9.7lbs

Ordering Information

WMC-403B	For Half-size SBC, (1) 5.25" Drive Bay, (2) 3.5" Drive Bays, (1) 8cm Fan with removable filter
WMC-403B -0400P-70W	WMC-403B with 4-slot ISA backplane and 70W AT PSU,
WMC-403B -0400P-80W	WMC-403B with 4-slot ISA backplane and 80 ATX PSU
WMC-403B -0403P-120W	WMC-403B with 4-slot PCI backplane and customize 120W ATX PSU, Beige color



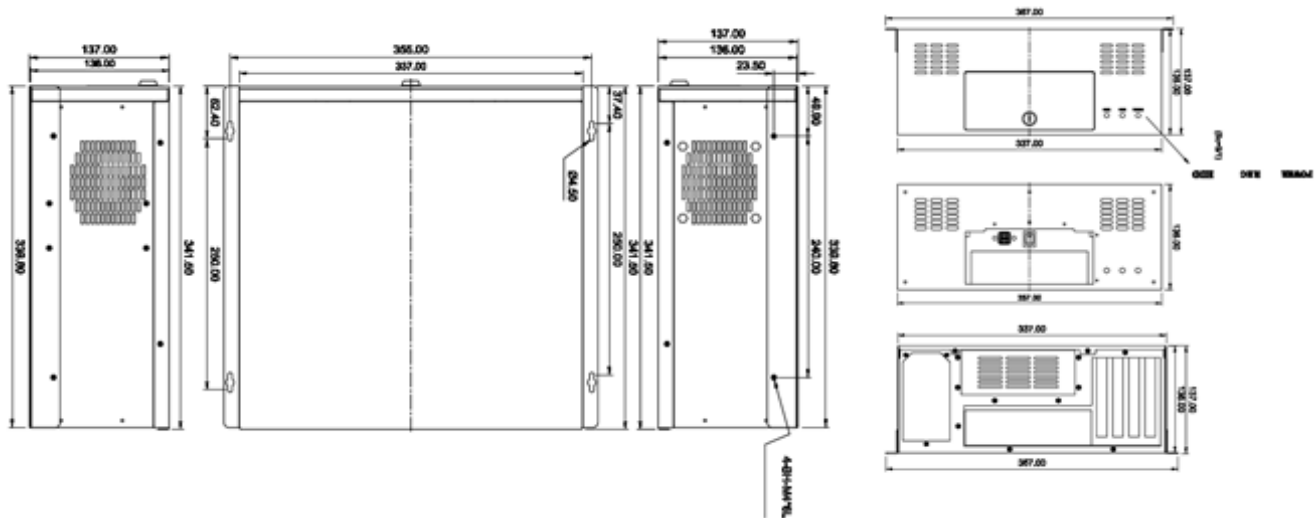
Introduction

WMC-402M "Hawkeye" is the wallmount /desktop industrial grade chassis specifically designed for PC based Digital Video Recording system for security, monitoring, transaction, access control and other safety applications. Within its heavy-duty steel construction it supports standard micro-ATX size, one external 5.25" drive bay for CD-ROM/DVD-ROM and one internal 3.5" drive bay for HDD, sufficient for small video system management. One super Low-Noise 8 cm fan ensures excellent airflow for superior system cooling while maintaining the silence and tranquility of the room. The system is powered by micro-ATX 300W power supply which is sufficient to support the system full loaded. **WMC-402M** is definitely the perfect choice for surveillance system in residential and commercial area.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Perfect replacement for VCR time-lapse CCTV systems, it is an affordable Digital Video Management System for small businesses and homes, for Digital Signage, Video Wall or Data Wall
- One 5.25" CD-ROM drive-bay and one 3.5" drive bay for HDD
- 8cm low-noise ball bearing fan with air ventilation for excellent airflow
- 300W Micro ATX power supply (**80PLUS Certified**)
- Modular design for easy installation and maintenance

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Micro ATX motherboard

Drive Bays

- (1) 5.25" CD-ROM + (1) 3.5" internal drive for HDD

Expansion

- Supports up to 4-slots

Power Supply

- 300W Micro ATX active PFC power supply

Cooling System

- One 8cm low-noise ball bearing fan

Ports

- 2 USB Ports on Front Panel

Switches

- Power On/Off switch

Indicators

- On/off LED, HDD LED and one recording in progress LED Defined LED

Dimensions

- 337 (W) x 339.8 (D) x 136 (H) mm
- 13.3 (W) x 13.4 (D) x 5.4 (H) inches

Operating Temperature

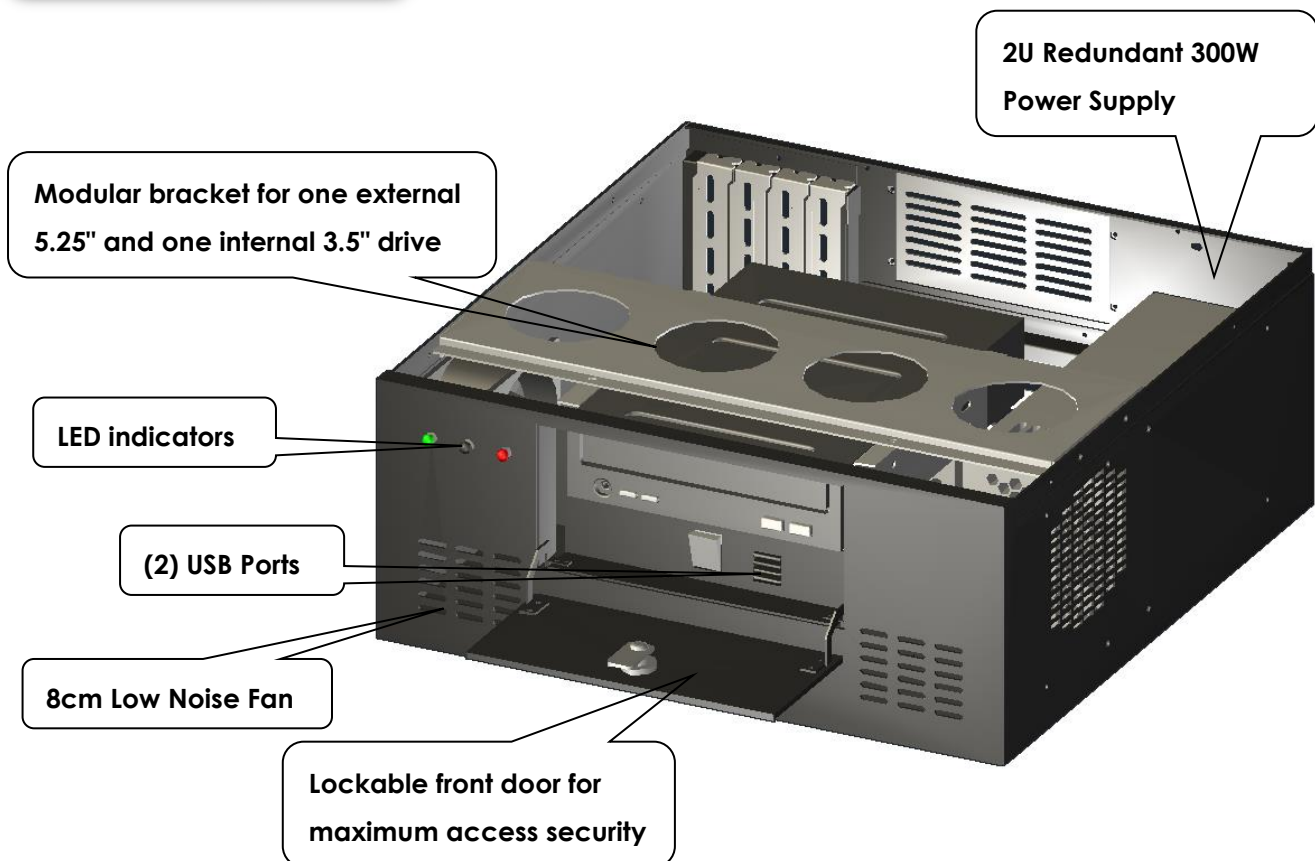
- 0~55 °C

Net/Gross Weight

- 5.1Kgs/8Kgs

Ordering Information

WMC-402M-300W	Compact chassis with (2) drive bays, 300W Micro ATX power supply for micro-ATX motherboard
WMC-402M	Compact chassis with (2) drive bays



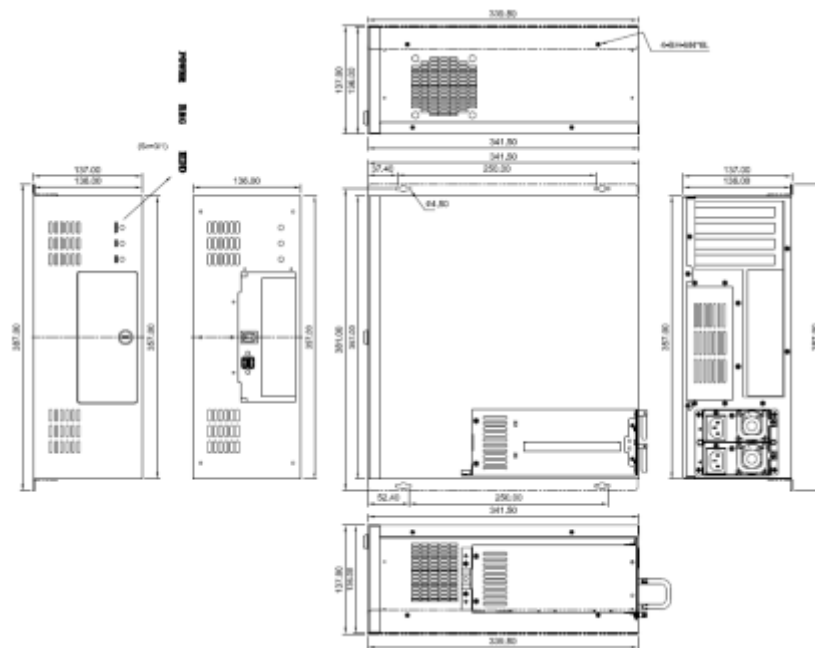
Introduction

WMC-402MR "Hawkeye" is the wall mount /desktop industrial grade chassis specifically designed for PC based Digital Video Recording system for security, monitoring, transaction, access control and other safety applications. Within its heavy-duty steel construction it supports standard micro-ATX size, one external 5.25" drive bay for CD-ROM/DVD-ROM and one internal 3.5" drive bay for HDD, sufficient for small video system management. One super Low-Noise 8 cm fan ensures excellent airflow for superior system cooling while maintaining the silence and tranquility of the room. The chassis is now powered by **2U Redundant 300w Power Supply** for a critical operating system where the power can never fail for 24 hours, 7 days a week operation.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Perfect replacement for VCR time-lapse CCTV systems, it is an affordable Digital Video Management System for small businesses and homes, for Digital Signage, Video Wall or Data Wall
- One 5.25" CD-ROM drive-bay and one 3.5" drive bay for HDD
- 8cm low-noise ball bearing fan with air ventilation for excellent airflow
- **2U Redundant 300w Power Supply**
- Modular design for easy installation and maintenance

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Micro ATX motherboard

Drive Bays

- (1) 5.25" CD-ROM & (1) 3.5" internal drive for HDD

Expansion

- Supports up to 4-slots

Power Supply

- 2U Redundant 300w power supply

Cooling System

- One 8cm low-noise ball bearing fan

Ports

- 2 USB Ports on Front Panel

Switches

- Power On/Off switch

Indicators

- On/off LED, HDD LED and one recording in progress LED Defined LED

Dimensions

- 337 (W) x 339.8 (D) x 136 (H) mm
- 13.3 (W) x 13.4 (D) x 5.4 (H) inches

Operating Temperature

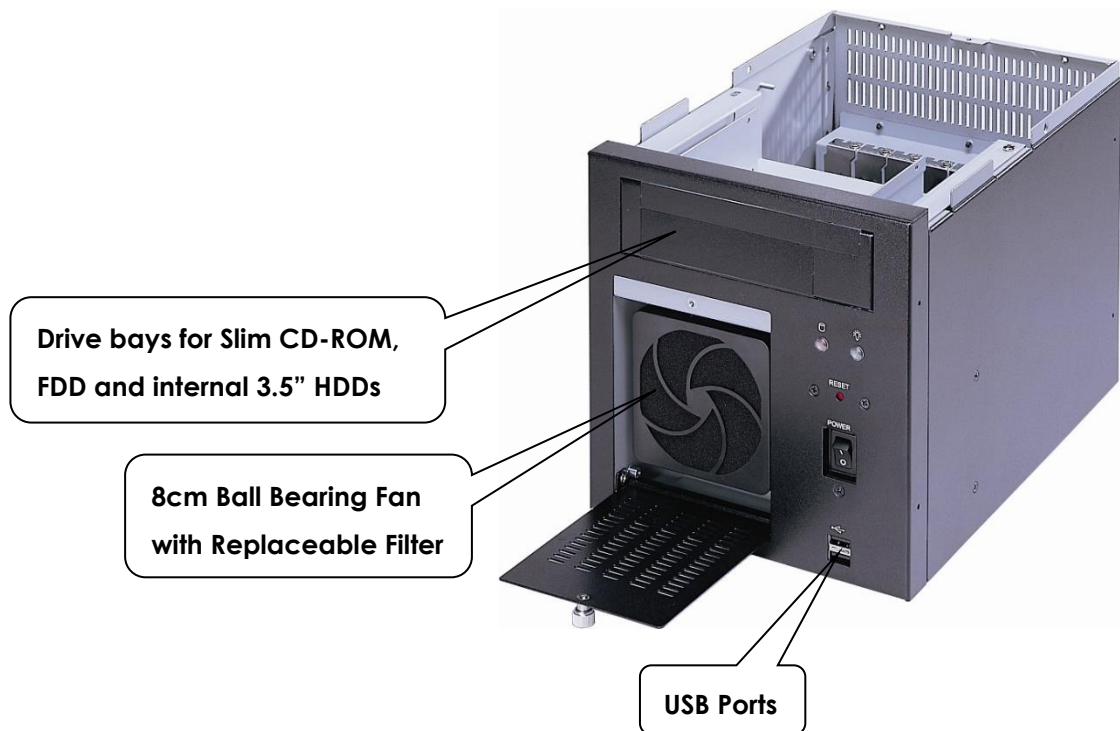
- 0~55 °C

Net/Gross Weight

- 5.1Kgs/8Kgs

Ordering Information

WMC-402MR-300W	Compact chassis with (2) drive bays, 2U Redundant 300w Power Supply for micro-ATX motherboard
WMC-402MR	Compact chassis with (2) drive bays

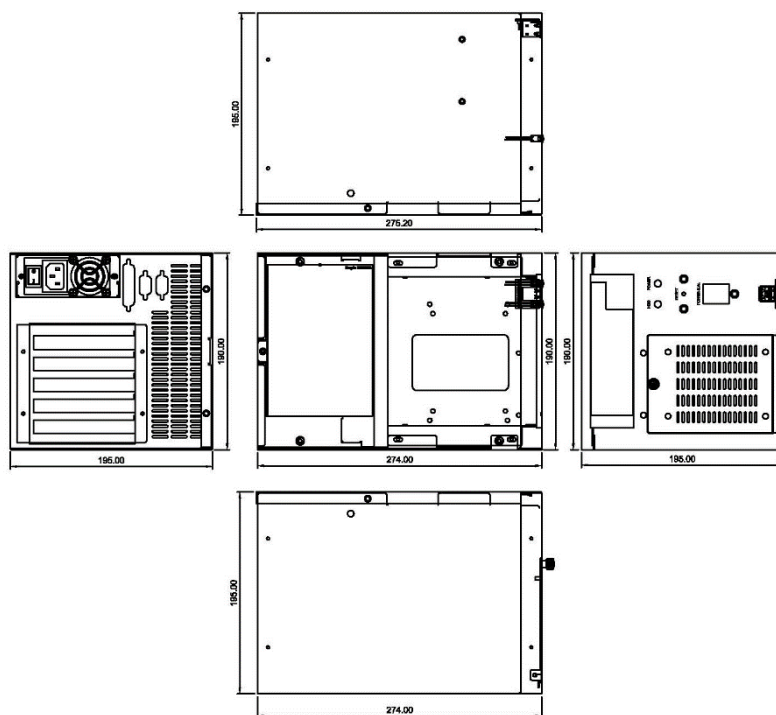


Introduction

WMC-503BH is a 5 slot Half-length industrial wallmount chassis. It is designed especially for compact-size industrial automation applications outside your server room where environment is extra harsh and unfriendly. Within its heavy-duty steel construction, it is equipped with one drive bay for slim CD-ROM, one floppy and one internal 3.5" drive bay, more than sufficient for a compact system requirement. 8cm ball bearing fan and replaceable air filter ensure excellent and clean cooling system for heavy-load applications. 200W ATX power supply can be included to save your time for trying to find suitable power supply.

Features

- Heavy-Duty Steel Construction
- Supports 5-slot or 6-slot Backplane for Half Size Card
- (1) 8cm ball bearing fan with replaceable filter
- Drive Bay for Slim CD-ROM, (1) 3.5" Drive Bay for FDD, and (1) 3.5" Drive Bays for HDDs
- 200W ATX Power Supply

Mechanical Drawing**Construction**

- Heavy Duty Steel

Color

- Black

Board Support

- Half Size SBC

Drive Bays

- (1) Slim ODD and (1) FDD (1) 3.5" internal

Expansion

- Supports 5-slot or 6-slots half size backplane

Power Supply

- 200W ATX power supply

Cooling System

- One 8cm ball bearing fan with replaceable air filter

Ports

- Two USB 2.0 Ports

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 190 (W) x 275.2 (D) x 195 (H) mm
- 7.5 (W) x 10.8 (D) x 7.7 (H) inches

Operating Temperature

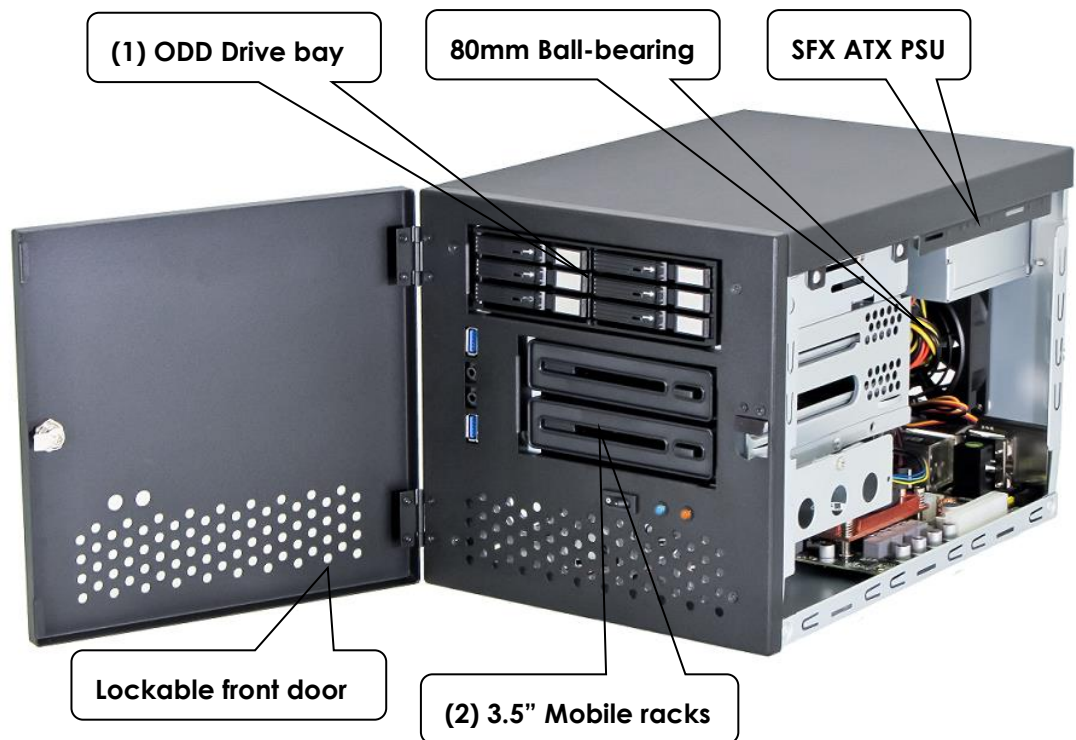
- 0~50 °C

Gross Weight

- 6.5kg/14.3lbs

Ordering Information

WMC-503BH-200W	WMC-503BH with 200W ATX power supply
BPH-0600P	6-slot ISA backplane

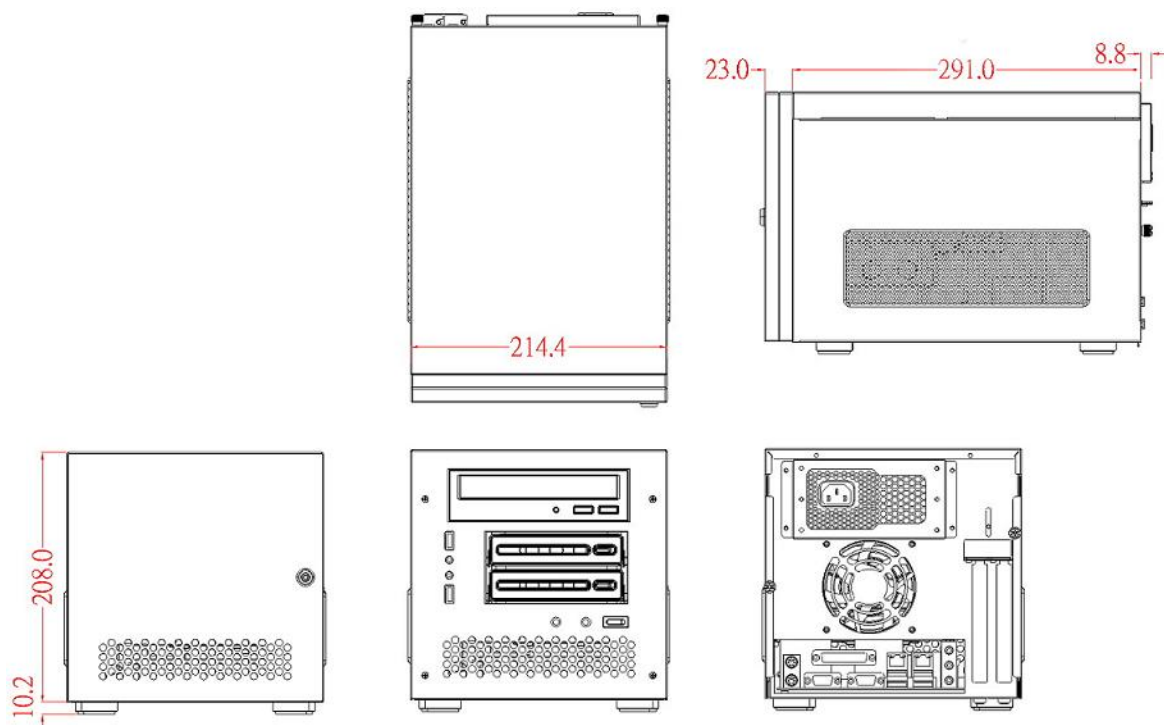


Introduction

The **WMC-504M** is designed for NAS storage server application or digital video recording system. Designed with one 5.25" external Drive bays and two 3.5" hot-swap Mobile racks, the **WMC-504M** allows for quick and easy hard drive removal without opening the chassis. The **WMC-504M** maintains a balanced internal temperature with an 80mm ball-bearing fan, the front door has a key lock which provides extra security. The **WMC-504M** is also suitable for RAID application that meets the needs of small and large companies.

Features

- Heavy-duty Steel, Black
- Supports Mini-ITX motherboard
- Lockable Front door
- (1) 5.25" external Drive bay
- (2) 3.5" HDD Mobile rack
- (1) 3.5" internal Drive bay
- (1) Additional space for (1) 3.5" HDD
- (2) Front USB 3.0 ports
- (2) Expansion slots
- (1) 80mm Ball-bearing fan
- Supports SFX ATX PSU

Mechanical Drawing**Construction**

- Heavy-Duty Steel, SECC 1.2t

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (1) 5.25" external Drive bay and (1) internal Drive bay
- (2) 3.5" HDD Mobile racks

Expansion

- Up to (2) expansion slots

Power Supply

- SFX ATX Power supply

Cooling System

- (1) 8cm ball-bearing fan on rear panel

Ports

- (2) USB 3.0 on front panel

Switches

- On/Off Power Switch

Indicators

- Power On/Off LED
- HDD Activity LED

Dimensions (W x D x H)

- 215 x 323 x 219 mm
- 8.44 x 12.7 x 8.6 inches

Operating Temperature

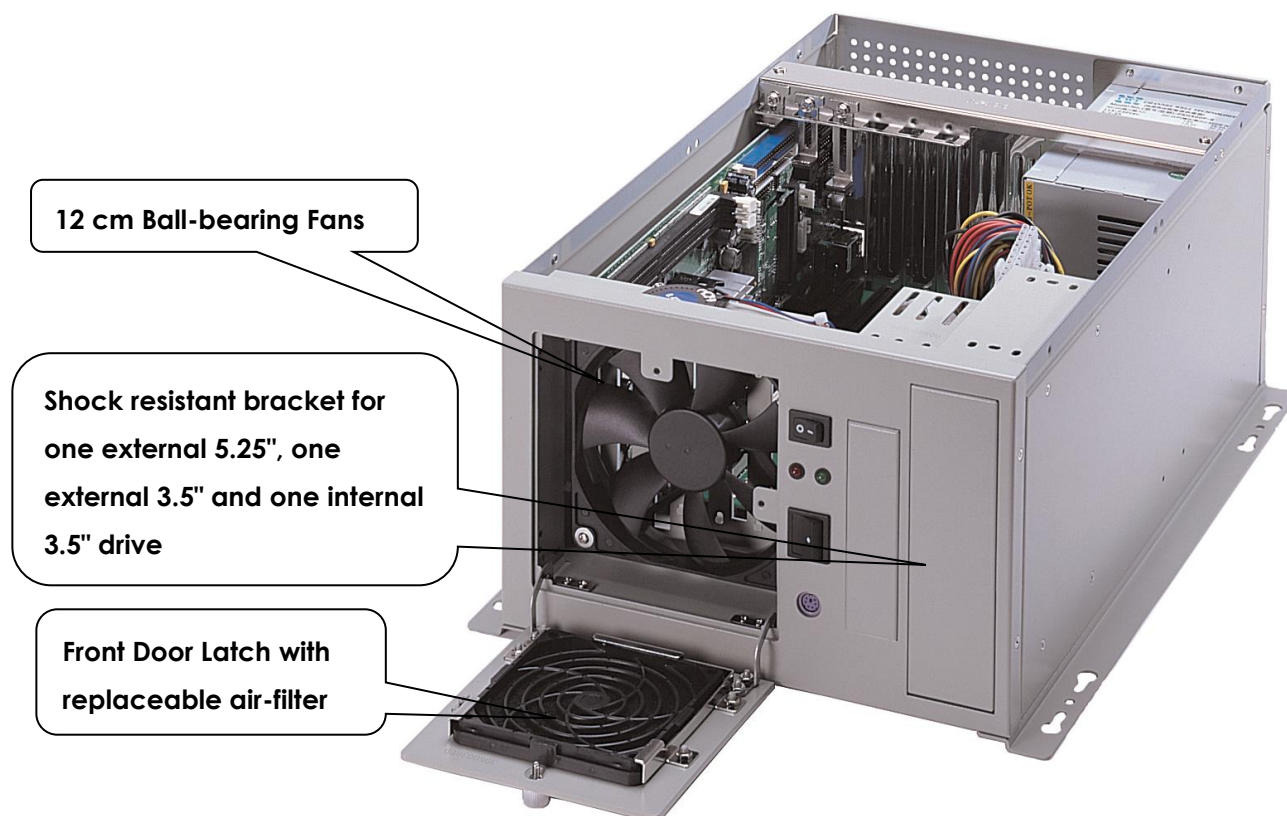
- 0~55 °C

Gross Weight

- 5.0kg/11.1lbs

Ordering Information

WMC-504M	Mini chassis for Mini-ITX motherboard with (1) 5.25" Drive bay and (2) 3.5" Mobile racks
WMC-504M-400W	Mini chassis for Mini-ITX motherboard with (1) 5.25" Drive bay and (2) 3.5" Mobile racks with 400W PSU



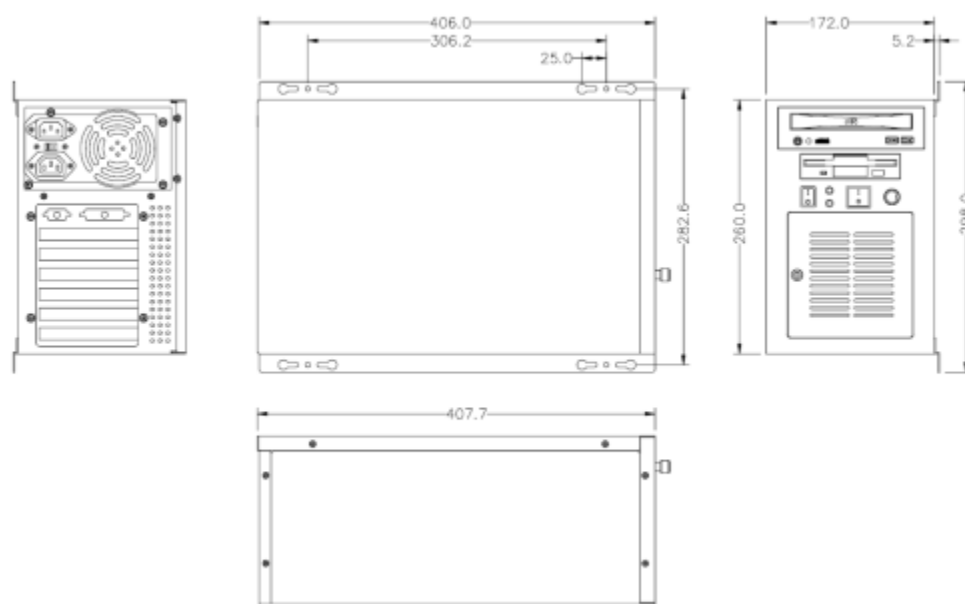
Introduction

The **WMC-603** is rugged 6-slot "Shoebox" type Industrial Chassis. Designed for the harshest of environments, the **WMC-603** is constructed of heavy-duty steel and is outfitted with a hold down bar to stabilize the SBC when used in an application with a substantial amount of shock and/or vibration. With drive bay space for (1) 5.25" CD/DVD, (1) 3.5" HDD, and (1) FDD disk drive as well as a 12cm ball-bearing fan with removable filter, the **WMC-603** has all the features necessary to provide the perfect chassis solution for a number of industrial computing applications.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- One 5.25" and two 3.5" drive bays (one hidden)
- 12 cm ball bearing fan with replaceable air-filter
- 6 slot backplane included.
- Shock resistant drive bracket
- Supports PS/2 power supply

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black/Beige

Board Support

- Full or Half Size PIII/PIV Single Board Computer

Drive Bays

- One 5.25" + one 3.5" external drives and one 3.5" internal drive

Expansion

- Backplane with 2 PICMG, 1 ISA and 4 PCI slots. Total usable 6 slots

Power Supply

- Supports PS/2 ATX power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 260 (W) x 408.5 (D) x 172 (H) mm
- 10 (W) x 16.1 (D) x 6.8 (H) inches

Operating Temperature

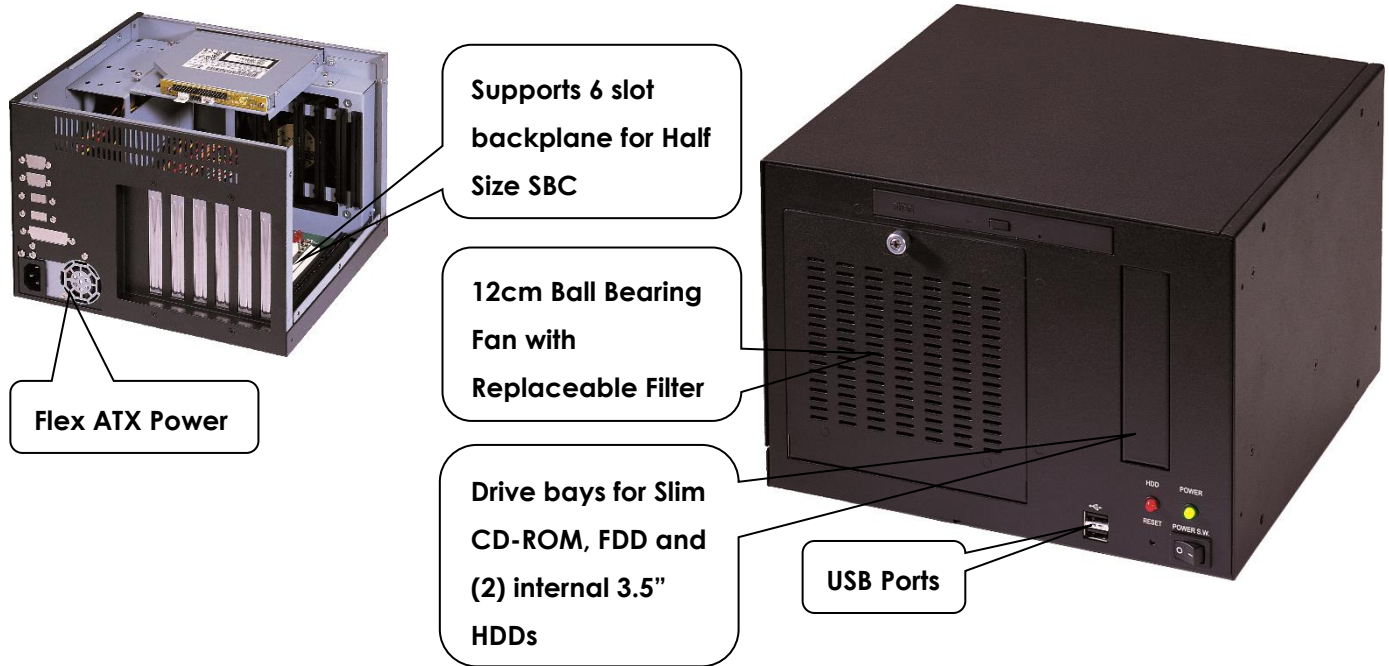
- 0~55 °C

Gross Weight

- 8kg/17.6lbs

Ordering Information

WMC-603B	Wallmount chassis with one 5.25" and two 3.5" drive bays
WMC-603B-0604P	Wallmount chassis WMC-603B with 2 PICMG, 1 ISA and 3 PCI slots backplane
WMC-603B-0604P-400W	Wallmount chassis WMC-603B with 2 PICMG, 1 ISA, 3 PCI slots backplane and PS/2 400W ATX power supply



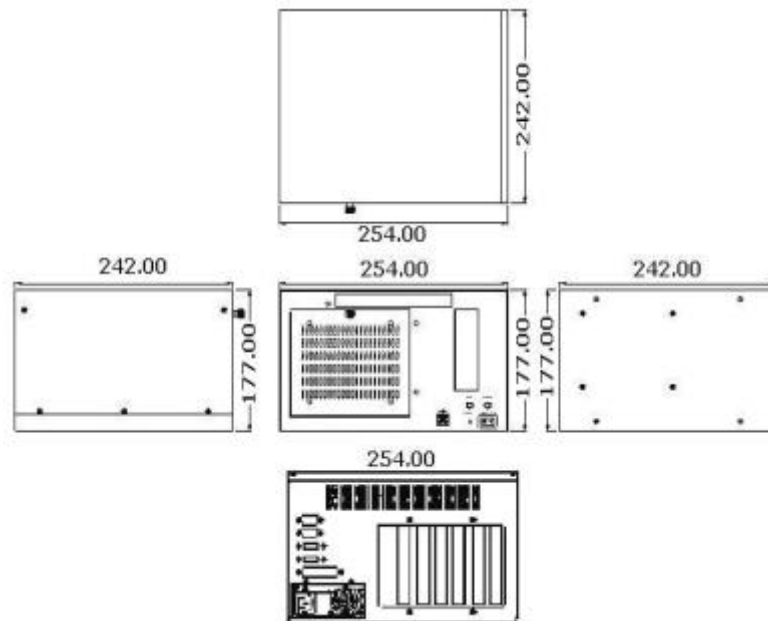
Introduction

WMC-604B is a 6 slot Half-length "shoe-box" industrial wallmount chassis. It is designed especially for compact-size industrial automation applications outside your server room where environment is extra harsh and unfriendly. Within its heavy-duty steel construction, it is equipped with one drive bay for slim CD-ROM, one external 3.5" and two internal 3.5" drive bays, more than sufficient for a compact system requirement. 12cm ball bearing fan and replaceable air filter ensure excellent and clean cooling system for heavy-load applications. 200W Flex ATX power supply can be included to save your time for trying to find suitable power supply. **WMC-604B** offers an ideal solution for computers in public area and mobile computers such as car computers or GPS.

Features

- Heavy-Duty Steel Construction
- Supports 6-slot Backplane for Half Size Card
- (1) 12cm ball bearing fan with replaceable filter
- Drive Bay for Slim CD-ROM, (1) 3.5" Drive Bay for FDD, and (2) 3.5" Drive Bays for HDDs
- 200W/300W Flex-ATX Power Supply

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Half Size PIII/PIV SBC

Drive Bays

- 5.25" and (1) 3.5" external drives and (2) 3.5" internal drives

Expansion

- Supports 6 slots half size backplane (not included)

Power Supply

- 200W/300W Flex-ATX power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Ports

- Two USB 2.0 Ports

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 220 (W) x 254 (D) x 177 (H) mm
- 8.7 (W) x 10 (D) x 7 (H) inches

Operating Temperature

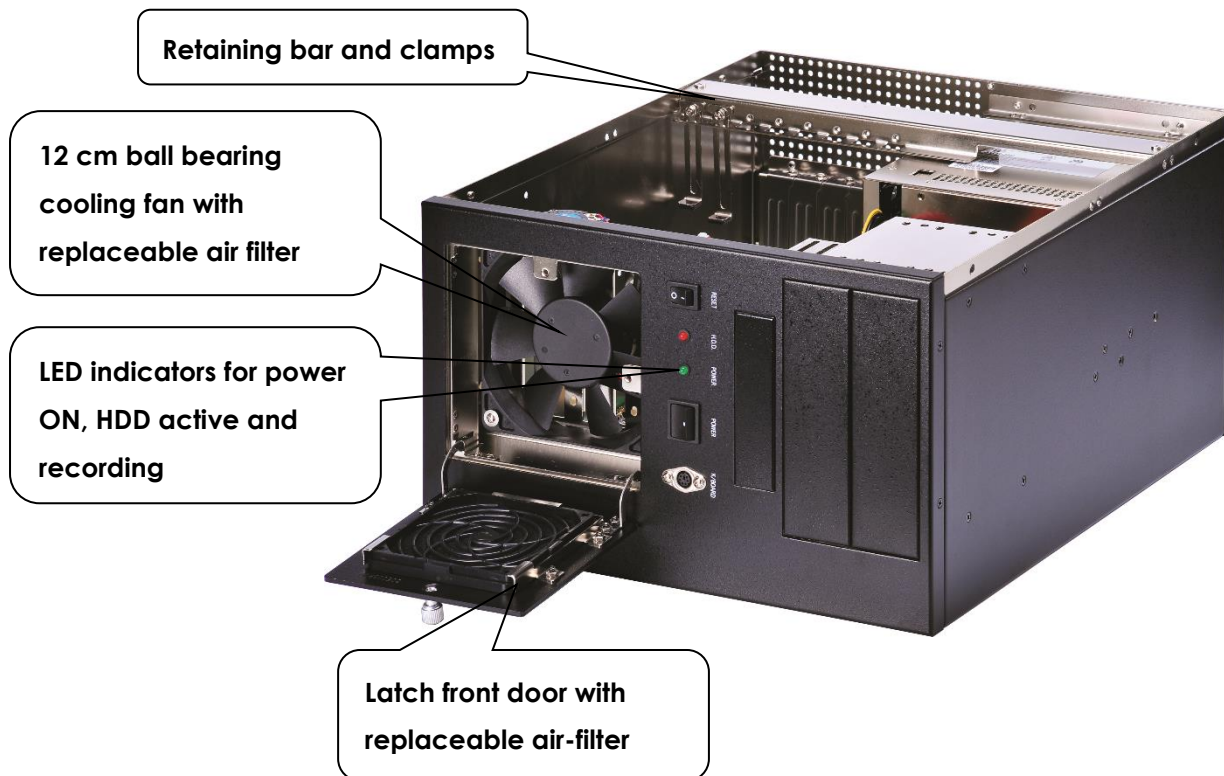
- 0~55 °C

Gross Weight

- 5.6kg/12.3lbs

Ordering Information

WMC-604B-300W	WMC-604B with 300W Flex ATX power supply
WMC-604B-200W	WMC-604B with 200W Flex ATX power supply
WMC-604B	WMC-604B chassis only



Introduction

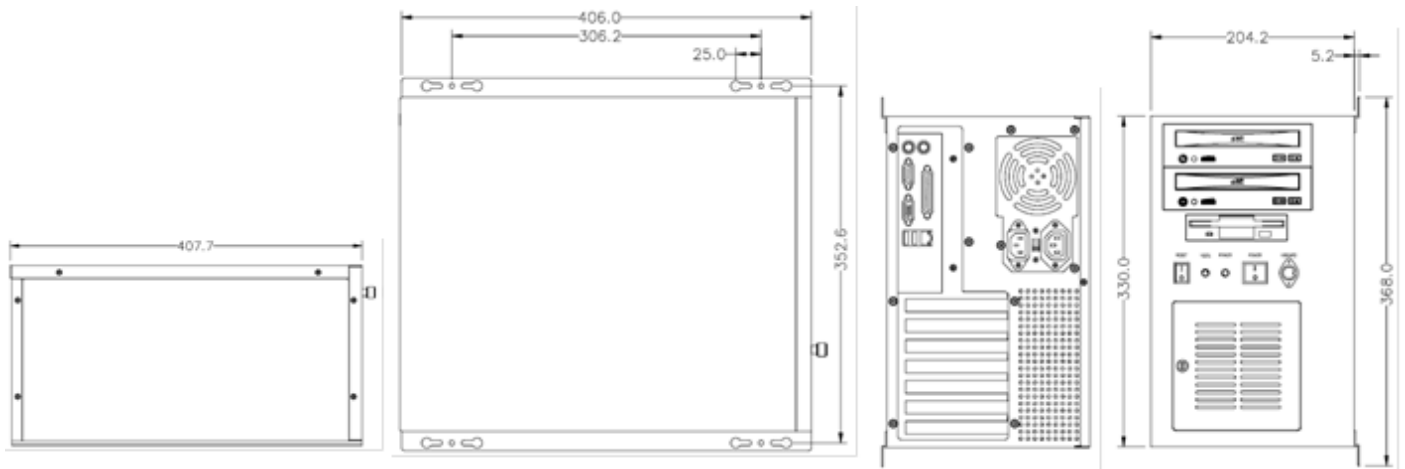
WMC-704M is a standard 7 slot full-length "shoe-box" wallmount or benchtop industrial chassis. It is designed to support ATX motherboard especially for industrial automation applications outside your server room where environment is extra harsh and unfriendly. Within its heavy-duty steel construction, it is equipped with two 5.25", one external 3.5" and one internal 3.5" drive bays for basic system requirement. Hold down bar and clamps are provided to ensure stable operations against heavy vibration. 12cm ball bearing fan and replaceable air filter ensure excellent and clean cooling system for heavy-load applications.

WMC-704M offers an ideal solution for computers in public area and mobile computers such as car computers or GPS.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Two 5.25" and two 3.5" drive bays (one hidden)
- 12 cm ball bearing fan with replaceable air-filter
- Supports PS/2 or Mini Redundant power supply.

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- ATX Motherboard

Drive Bays

- (2) 5.25" + (1) 3.5" external drives and one 3.5" internal drives

Expansion

- Ready for additional up to (7) additional add-on cards

Power Supply

- PS/2 power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Ports

- PS/2 Keyboard connector on front panel

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 330 (W) x 406 (D) x 204.2 (H) mm
- 13 (W) x 16 (D) x 8 (H) inches

Operating Temperature

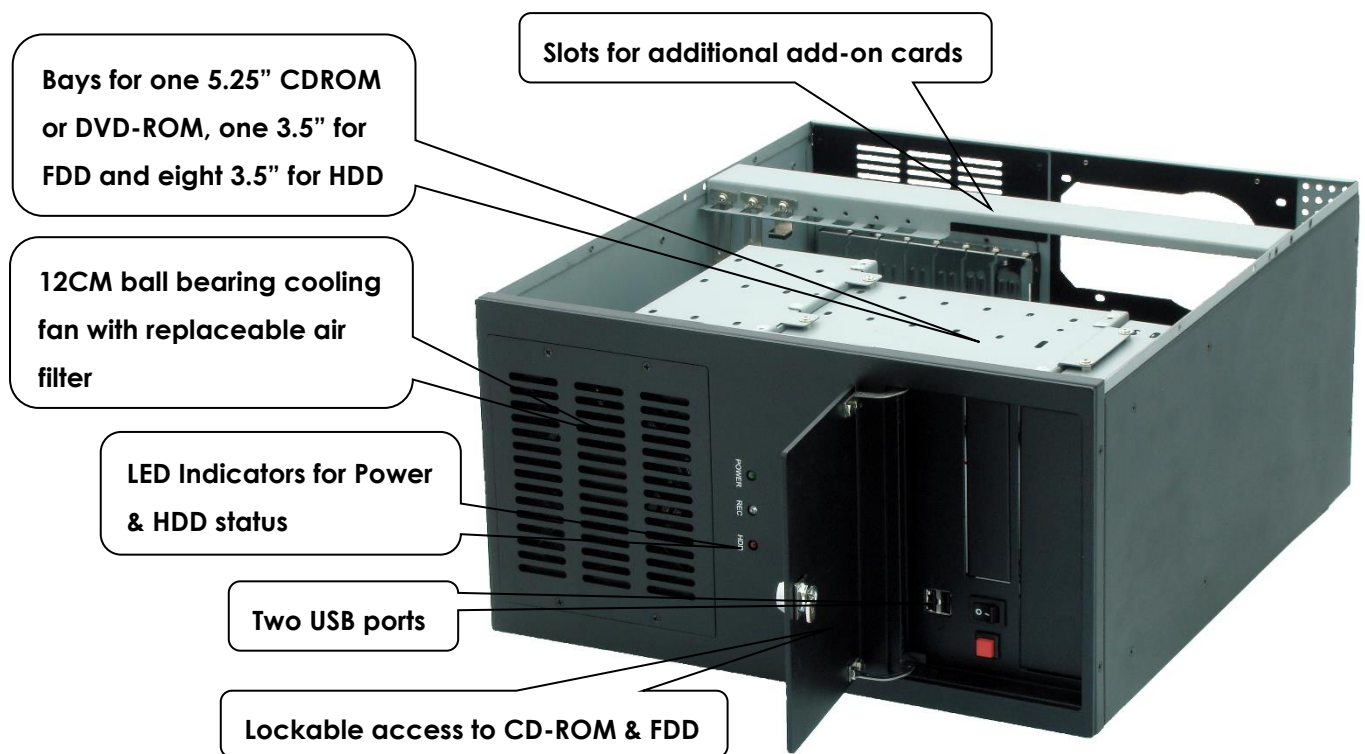
- 0~55 °C

Net/Gross Weight

- 7.7Kgs/9.6Kgs

Ordering Information

WMC-704M	Wallmount chassis with (2) 2.5" and (2) 3.5" Drive Bays for ATX motherboard
WMC-704M-400W	Same as above and with 400W PS/2 ATX Power Supply
WMC-704M-600W	Same as above and with 600W PS/2 ATX Power Supply
WMC-704M-400WR	Same as above and with 400W Mini Redundant Power Supply

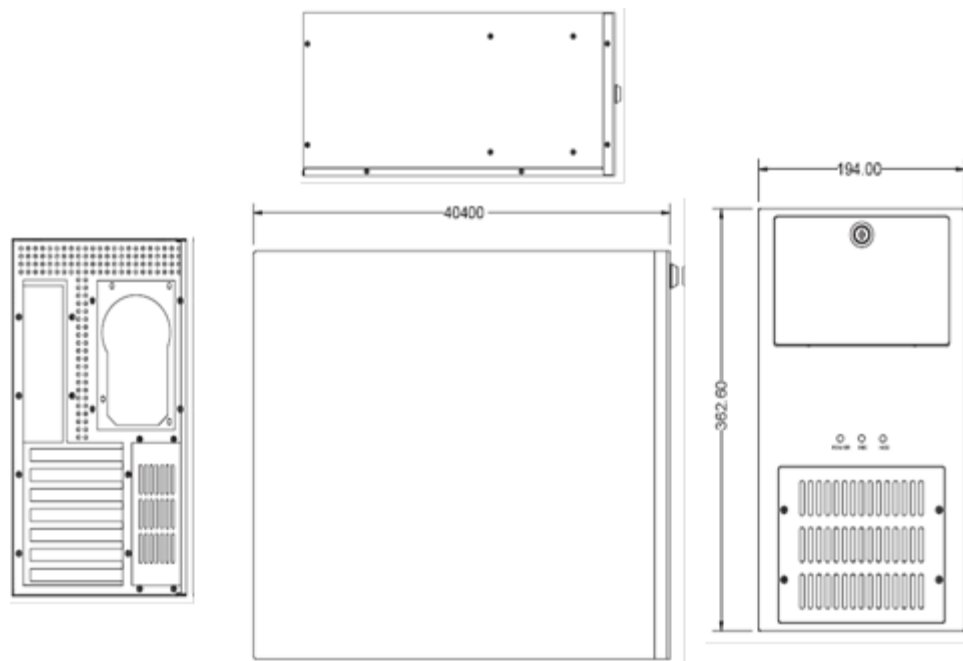


Introduction

The **WMC-710M** provides a high-end solution for a DVR Chassis, perfect for both Mobile and fixed applications. Constructed of heavy-duty steel, the **WMC-710M** ensures the integrity of its contents with a 12CM ball-bearing fan that provides the chassis with a superior cooling system. The **WMC-710M** supports any ATX Motherboard and PS2 type power supply. Two features set the **WMC-710M** apart from its competitors: the chassis supports (8) 3.5" HDD providing users an all-in-one DVR storage solution.

Features

- Heavy duty steel construction, the chassis can be mounted vertically or horizontally; supports ATX motherboard
- One 5.25" CD-ROM bay, one 3.5" bay for FDD and eight 3.5" bay for HDD
- Two USB ports on front panel
- 12cm ball bearing fan with air ventilation for excellent airflow
- Supports PS2 Power Supply

Mechanical Drawing**Construction**

- Heavy Duty Steel

Color

- Black

Board Support

- ATX

Drive Bays

- 5.25" for CD-ROM, (1) 3.5" for HDD, (8) 3.5" for HDD

Expansion

- Up to (7) expansion slots

Power Supply

- PS/2 power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Ports

- Two USB 2.0 Ports

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 400 (W) x 362 (D) x 194 (H) mm
- 15.7 (W) x 14.2 (D) x 7.6 (H) inches

Operating Temperature

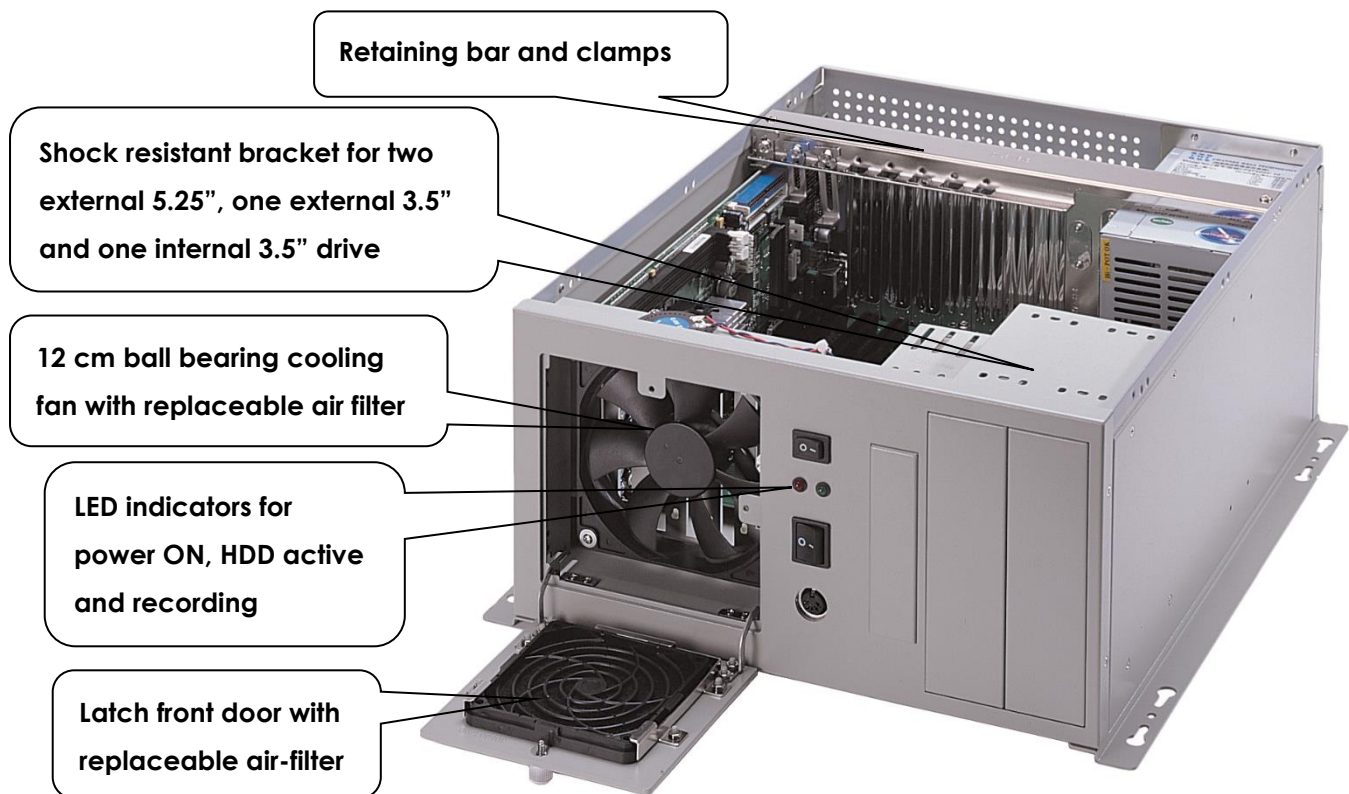
- 0~55 °C

Gross Weight

- 10.2kg/22.5lbs

Ordering Information

WMC-710M Compact chassis with (10) drive bays, supports ATX motherboard



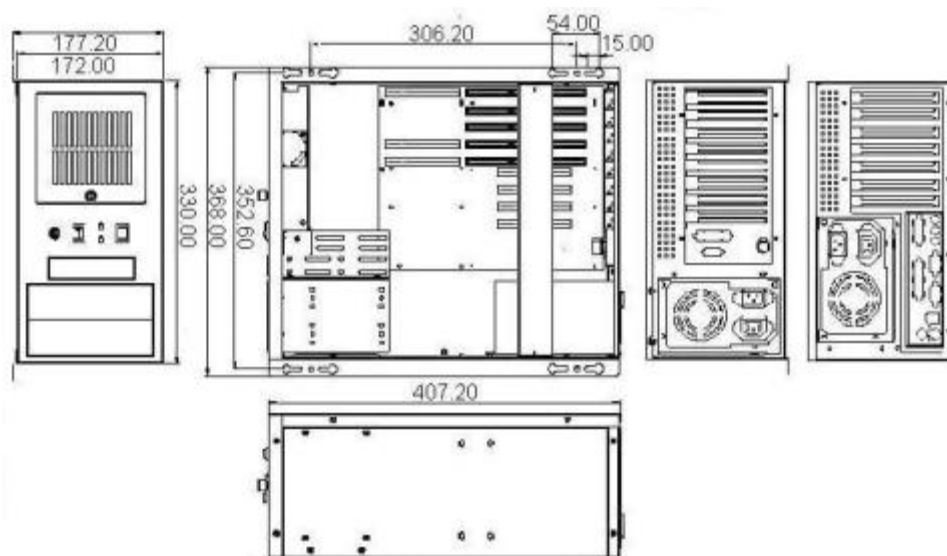
Introduction

WMC-804B is a standard 8 slot full-length "shoe-box" wallmount or benchtop industrial chassis. It is designed to support 8 slots backplane especially for industrial automation applications outside your server room where environment is extra harsh and unfriendly. Within its heavy-duty steel construction, it is equipped with two 5.25", one external 3.5" and one internal 3.5" drive bays for basic system requirement. Hold down bar and clamps are provided to ensure stable operations against heavy vibration. 12cm ball bearing fan and replaceable air filter ensure excellent and clean cooling system for heavy-load applications. WMC-804 offers an ideal solution for computers in public area and mobile computers such as car computers or GPS.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Two 5.25" and two 3.5" drive bays (one hidden)
- 12 cm ball bearing fan with replaceable air-filter
- Shock resistant drive bracket.
- Supports PS/2 power supply.

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Beige (PANTONE 413C)

Board Support

- Full or Half Size PIII/PIV Single Board Computer

Drive Bays

- (2) 5.25" + (1) 3.5" external drives and one 3.5" internal drives

Expansion

- Ready for additional up to seven additional add-on cards

Power Supply

- PS/2 power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Ports

- Keyboard connector on front panel

Switches

- On/Off switch, reset switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 330 (W) x 406 (D) x 172 (H) mm
- 13 (W) x 16 (D) x 6.8 (H) inches

Operating Temperature

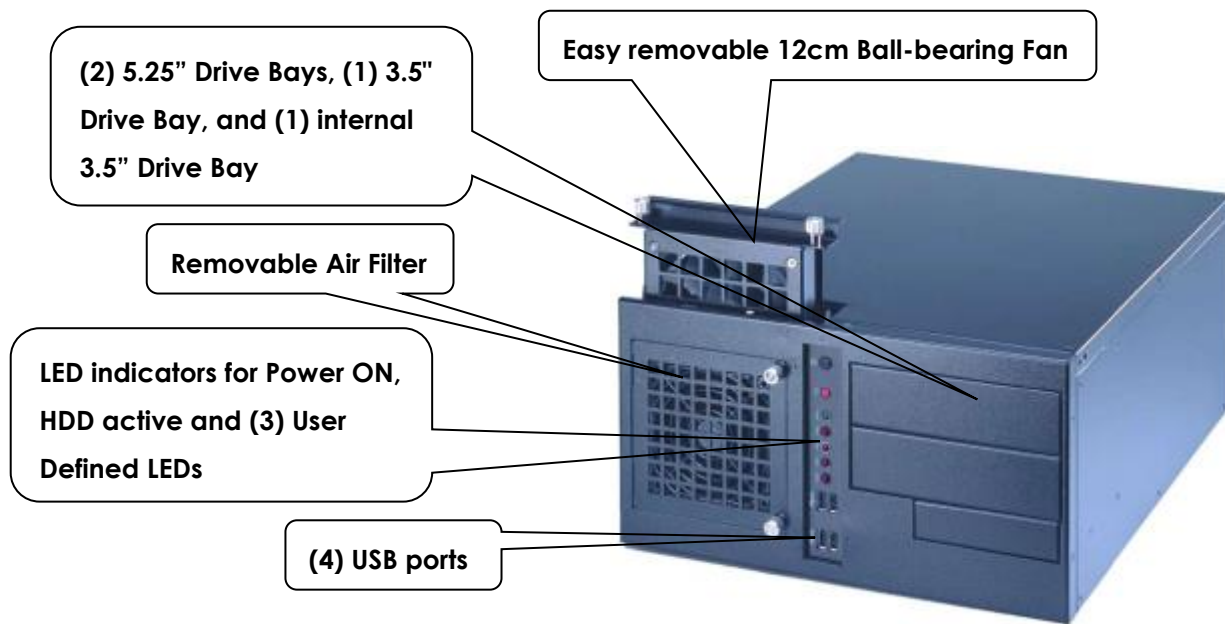
- 0~55 °C

Gross Weight

- 7.2kg

Ordering Information

WMC-804B-0804P	Shoebox chassis with (2) PICMG, (2) ISA and (4) PCI backplane
WMC-804B-0804P-300W	Wallmount chassis WMC-804B with 2 PICMG, 2 ISA, 4 PCI slots backplane and PS/2 300W ATX power supply
WMC-804B-0804P-400W	Wallmount chassis WMC-804B with 2 PICMG, 2 ISA, 4 PCI slots backplane and PS/2 400W ATX power supply



Introduction

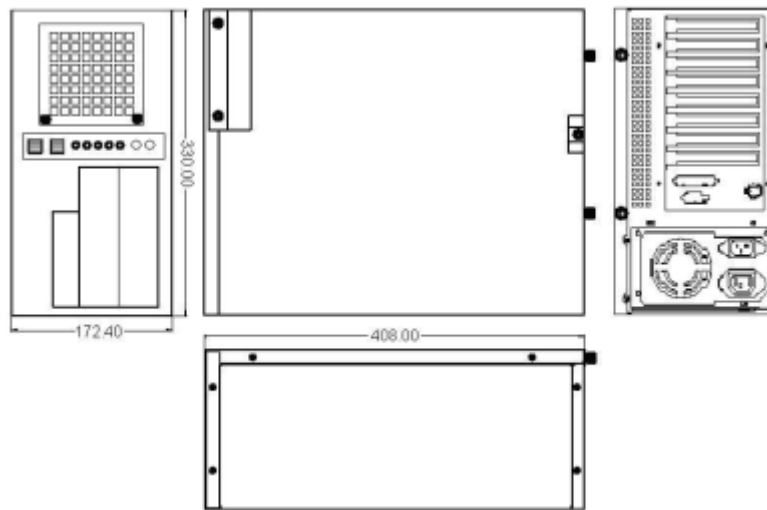
WMC-804BA is an advance 8 slot full-length "shoe-box" wallmount or benchtop industrial chassis. It is designed to support 8 slots backplane for industrial applications. Within its heavy-duty steel construction, it is equipped with two 5.25", one external 3.5" and one internal 3.5" drive bays for basic system requirement. Three additional LED indicators can be used for self defined applications. A 12cm easy removable ball bearing fan and replaceable air filter ensure an excellent and clean cooling system for heavy-load applications.

WMC-804BA offers an ideal solution for computers in public area and mobile computers such as car computers or GPS.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- (2) 5.25" and (2) 3.5" drive bays (one hidden)
- Easy removable 12cm ball-bearing fan with replaceable air-filter
- (3) Additional LEDs for user defined applications.
- Supports PS/2 power supply.

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Board Support

- Full or Half Size PIII/PIV Single Board Computer

Drive Bays

- (2) 5.25" and (1) 3.5" external drives and (1) 3.5" internal drive

Expansion

- Ready for additional up to (8) additional add-on cards

Power Supply

- PS/2 power supply

Cooling System

- One 12cm ball bearing fan with replaceable air filter

Ports

- (4) USB front panel connectors

Switches

- On/Off switch, reset switch

Indicators

- Power on/off LED, (1) HDD Active LED, and (3) LED for user defined applications

Dimensions

- 330 (W) x 408 (D) x 172.4 (H) mm
- 13 (W) x 16 (D) x 6.8 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 9kg

Ordering Information

WMC-804BA-0804P	WMC-804BA with (2) PICMG, (2) ISA and (4) PCI slots backplane
WMC-804BA-0804P-400W	WMC-804BA with (2) PICMG, (2) ISA and (4) PCI slots backplane and 400W ATX PSU
WMC-804BA-0807A	WMC-804BA with (1) PICMG, (1) ISA and (7) PCI slots backplane
WMC-804BA-0807A-400W	WMC-804BA with (1) PICMG, (1) ISA and (7) PCI slots backplane and 400W ATX PSU

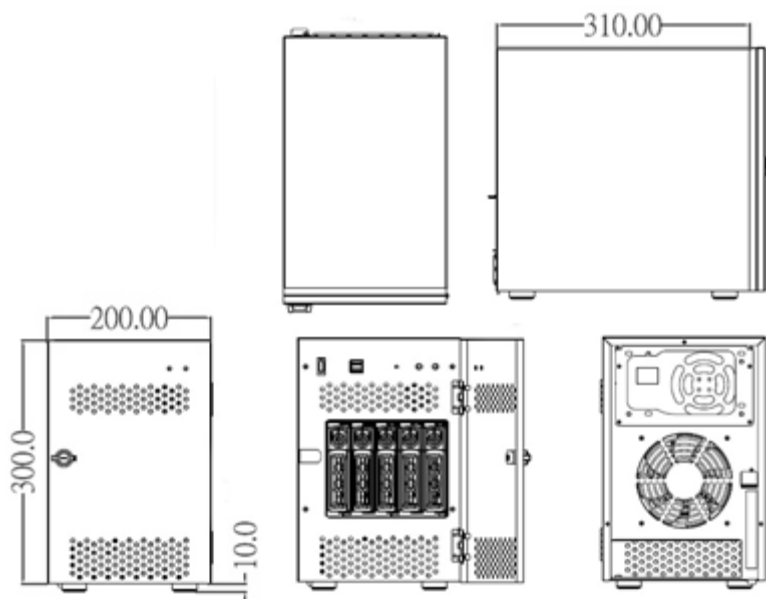


Introduction

The **WMC-906M** is designed for NAS storage server application or digital video recording (NVR) system. Designed with five 3.5" hot-swap Mobile racks and one 3.5" internal Drive bay, the **WMC-906M** allows for quick and easy hard drive removal without opening the chassis. The **WMC-906M** maintains a balanced internal temperature with an 120mm ball-bearing fan, the front door has a key lock to prevent unauthorized access. The **WMC-906M** is suitable for RAID applications that meets the needs of small and medium size enterprises and surveillance projects.

Features

- Heavy-duty Steel, Black
- Support Mini-ITX motherboard
- Lockable Front door
- (5) 3.5" HDD Mobile rack
- (1) 3.5" or 2.5" internal Drive bay
- (2) Front USB 3.0 ports
- (1) Expansion slot
- (1) 120mm Ball-bearing fan
- Support PS2 ATX or Mini-redundant PSU

Mechanical Drawing**Construction**

- Heavy-Duty Steel, SECC 1.2t

Color

- Black

Board Support

- Mini-ITX motherboard

Drive Bays

- (5) 3.5" HDD Mobile racks
- (1) 3.5" or 2.5" internal Drive bay

Expansion

- (1) expansion slot

Power Supply

- PS2 ATX or Mini-redundant Power supply

Cooling System

- (1) 120mm ball-bearing fan on rear panel

Ports

- (2) USB 3.0 on front panel

Switches

- On/Off Power Switch

Indicators

- Power On/Off LED
- HDD Activity LED

Dimensions (W x D x H)

- 200 x 312 x 300 mm
- 7.88 x 12.29 x 11.82 inches

Operating Temperature

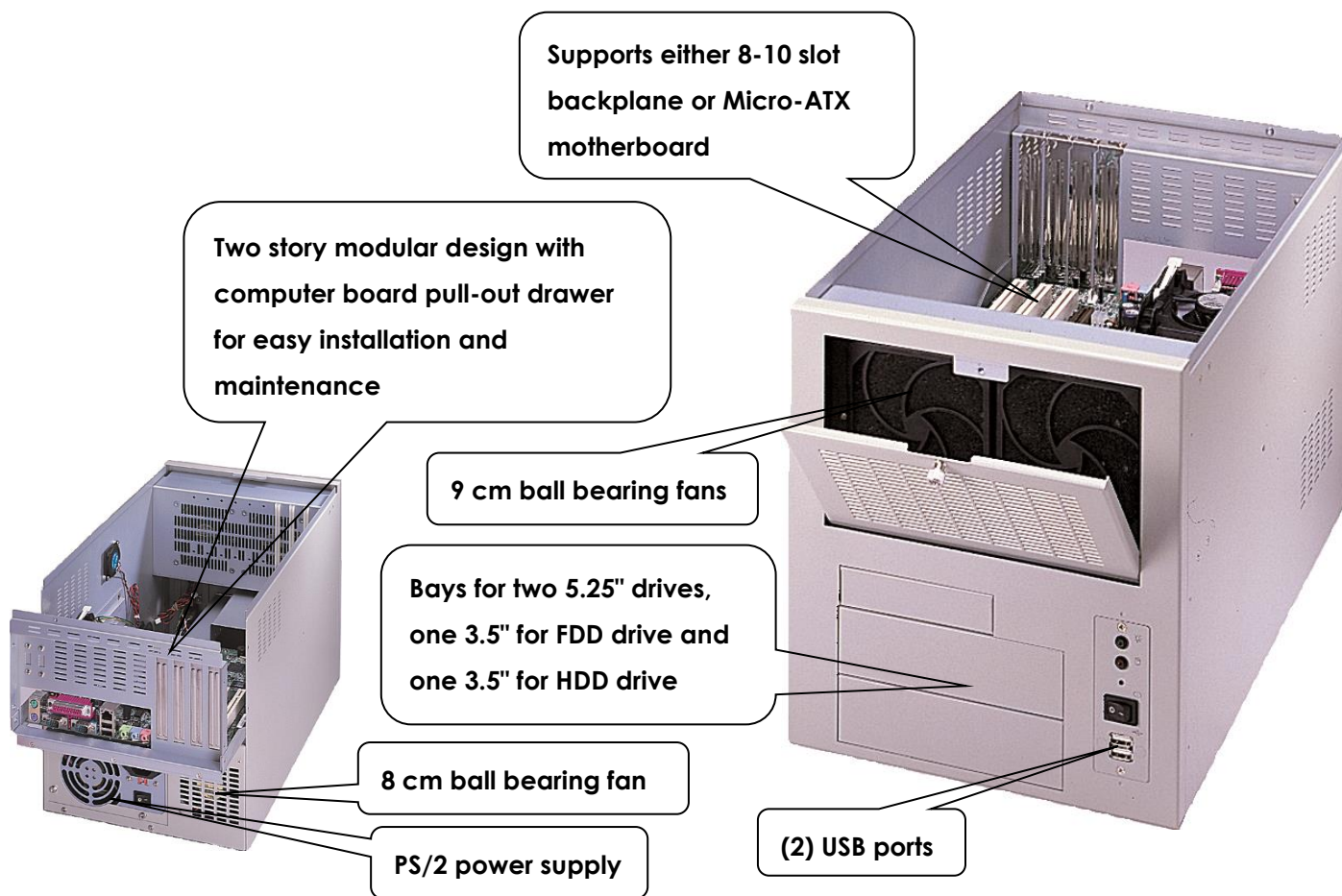
- 0~55 °C

Gross Weight

- 6.5kg / 14.33lbs

Ordering Information

WMC-906M-BLK	Mini chassis for Mini-ITX MB with (5) 3.5" Mobile racks and (1) 3.5" Drive bay
WMC-906M-400W	Mini chassis for Mini-ITX motherboard with (5) 3.5" Mobile racks and (1) 3.5" Drive bay, with 400W ATX PSU
WMC-906M-400WR	Mini chassis for Mini-ITX motherboard with (5) 3.5" Mobile racks and (1) 3.5" Drive bay, with 400W ATX redundant PSU



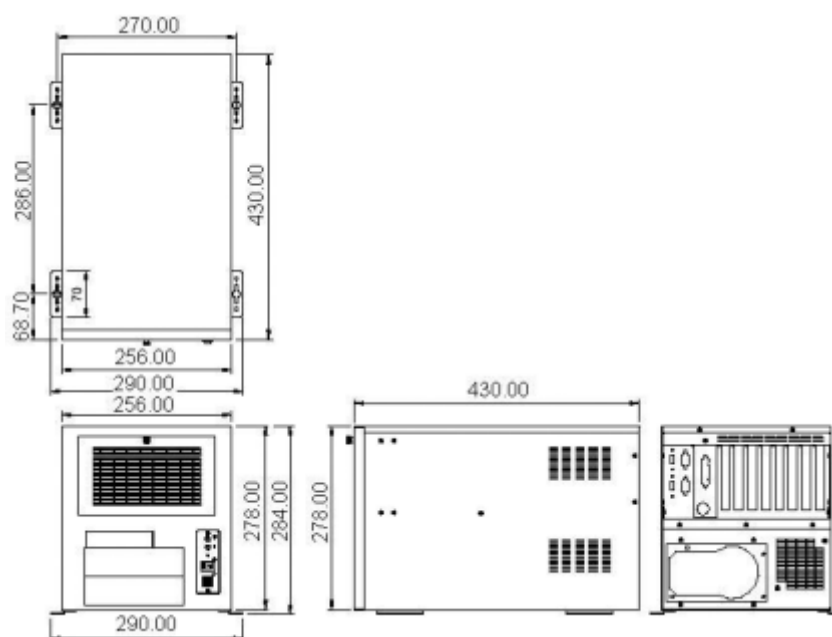
Introduction

The **WMC-1004** is a full-length "shoe-box" wallmount industrial chassis for both SBC's (8-10 slot backplanes) and micro ATX motherboard. Its two-story modular design allows convenient installation of CPU boards and drivers while keeping the size of the chassis compact. Within its heavy-duty steel construction, it is equipped with two 5.25", one external 3.5" and one internal 3.5" drive bays for basic system requirements. To further enhance the unique design of the **WMC-1004**, (2) 9cm ball-bearing fans have been allocated especially for the CPU board to maintain the integrity of the higher speed processors. The **WMC-1004** offers an ideal solution for computers in public areas or mobile computers where size is one of the main concerns.

Features

- Heavy duty steel construction shoebox industrial chassis can be mounted vertically or horizontally
- Two 5.25" and two 3.5" drive bays (one hidden).
- Two 9 cm ball bearing fans with replaceable air-filter and one 8cm ball bearing fan.
- Supports 8-10 slot backplane or micro-ATX motherboard

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Beige

Board Support

- 8 slot backplane for Full or Half Size SBC and micro ATX motherboard Computer

Drive Bays

- (2) 5.25" + (1) 3.5" external drives and (1) 3.5" internal drives

Expansion

- 8-10 slot backplane or 4 PCI slots on micro ATX motherboard

Power Supply

- PS/2 power supply

Cooling System

- Two 9cm ball bearing fan with replaceable air filter and one 8cm ball bearing fan for drive bays compartment

Ports

- Two USB connectors

Switches

- On/Off switch

Indicators

- One power on/off LED and one HDD LED

Dimensions

- 256 (W) x 430 (D) x 278 (H) mm
- 10 (W) x 16.9 (D) x 11 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 10.6kg/23.4lbs

Ordering Information

WMC-1004B	Two story shoebox chassis for 8 slot backplane, Beige
WMC-1004M	Two story shoebox chassis for Micro ATX motherboard, Beige

Ruggedized Embedded Chassis



The Global Choice for Premium Industrial Computer Products



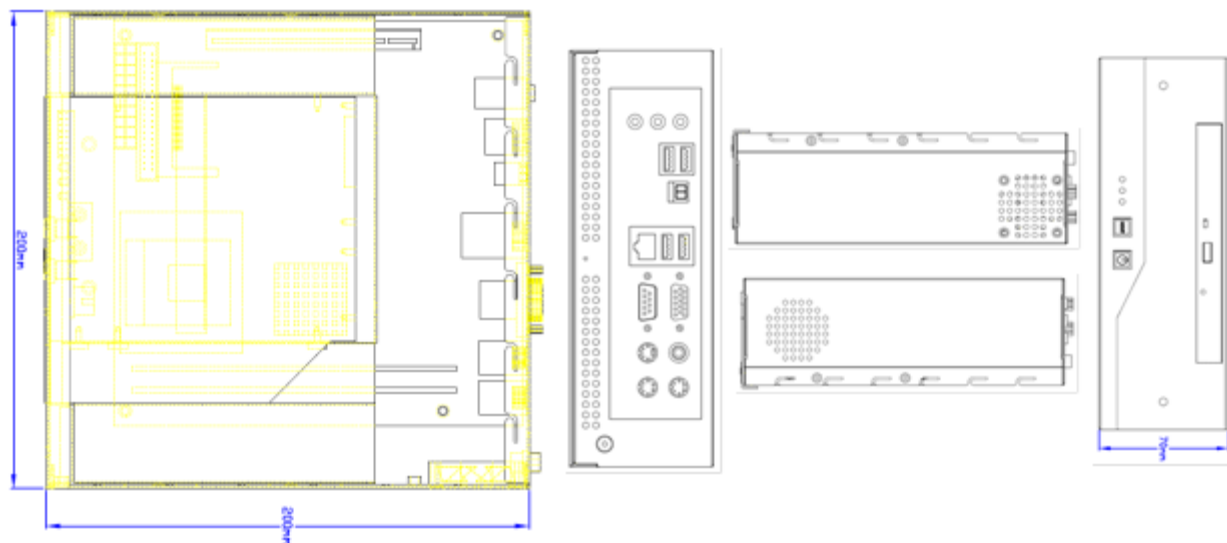
Introduction

GeNie-S02 is the compact chassis for Mini-ITX form factor, the Mini-ITX motherboard comes with 17CM x 17CM dimension, suitable for embedded system that require portable and low power consumption. **GeNie-S02** provides one Drive Bay for slim CD-ROM drive, and one 2.5" HDD Drive Bay, integrated DC to DC module for external 85W AC to DC power adapter.

Features

- Compact Mini-ITX Chassis
- 2.5" internal drive bay
- Slim ODD drive bay
- DC-DC ATX power supply delivers 85 W/ 120W peak of power

Mechanical Drawing



Construction

- Heavy-Duty Steel, Aluminum Front Panel

Color

- Black

Board Support

- Mini-ITX motherboard (17x17 cm)

Drive Bays

- (1) slim CD-ROM + (1) 2.5" internal drive for HDD

Expansion

- None

Power Supply

- External power Adaptor & Internal DC-DC Power supply

Cooling System

- One 40mm ball bearing fan

Switches

- Power On/Off and reset switch

Indicators

- LED for Power ON/OFF, HDD Active, LAN Active

Dimensions

- 200 (W) x 200 (D) x 70 (H) mm
- 7.9 (W) x 7.9 (D) x 2.8 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 1.4kg

Ordering Information

GeNie-S02-00	Mini-ITX Chassis with 85W DC-DC power supply & power adapter
GeNie-S02-01	Mini-ITX Chassis only, without power supply



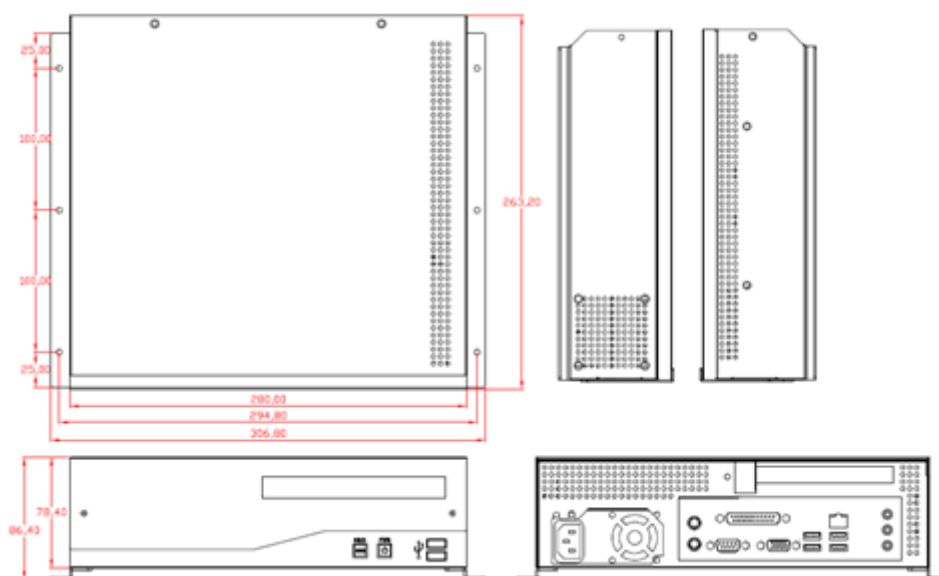
Introduction

GeNie-S03 is the compact chassis for Mini-ITX form factor, the Mini-ITX motherboard comes with 17CM x 17CM dimension, suitable for embedded system that require portable and low power consumption. **GeNie-S03** provides one expansion slot, supports up to (8) 2.5" SATA HDD Drive Bays or (2) 3.5" HDD Drive Bays

Features

- Mini-ITX Chassis with one expansion slot
- Supports up to (8) 2.5" SATA HDD Drive Bays or (2) 3.5" HDD Drive Bays
- Slim ODD drive bay (optional)
- 2.0 USB ports on front panel
- Different front Panel Color is available

Mechanical Drawing



Construction

- Heavy-Duty Steel, Aluminum Front Panel

Color

- Black, with replaceable Silver front panel

Board Support

- Mini-ITX motherboard (17x17 cm)

Drive Bays

- (2) 3.5", or (4) 2.5" with (1) slim ODD, or (8) 2.5" Max.

Expansion

- (1) 32-bit PCI or PCI-E Riser Card

Power Supply

- Flex ATX power supply 200W

Cooling System

- (1) 6cm Heavy Duty Ball Bearing Fan

Switches

- Power On/Off and reset switch

Indicators

- LED for Power ON/OFF, HDD Active, LAN Active

Dimensions

- 268 (W) x 280 (D) x 77 (H) mm
- 10.6 (W) x 11 (D) x 3 (H) inches

Operating Temperature

- 0~55 °C

Gross Weight

- 3.4kg

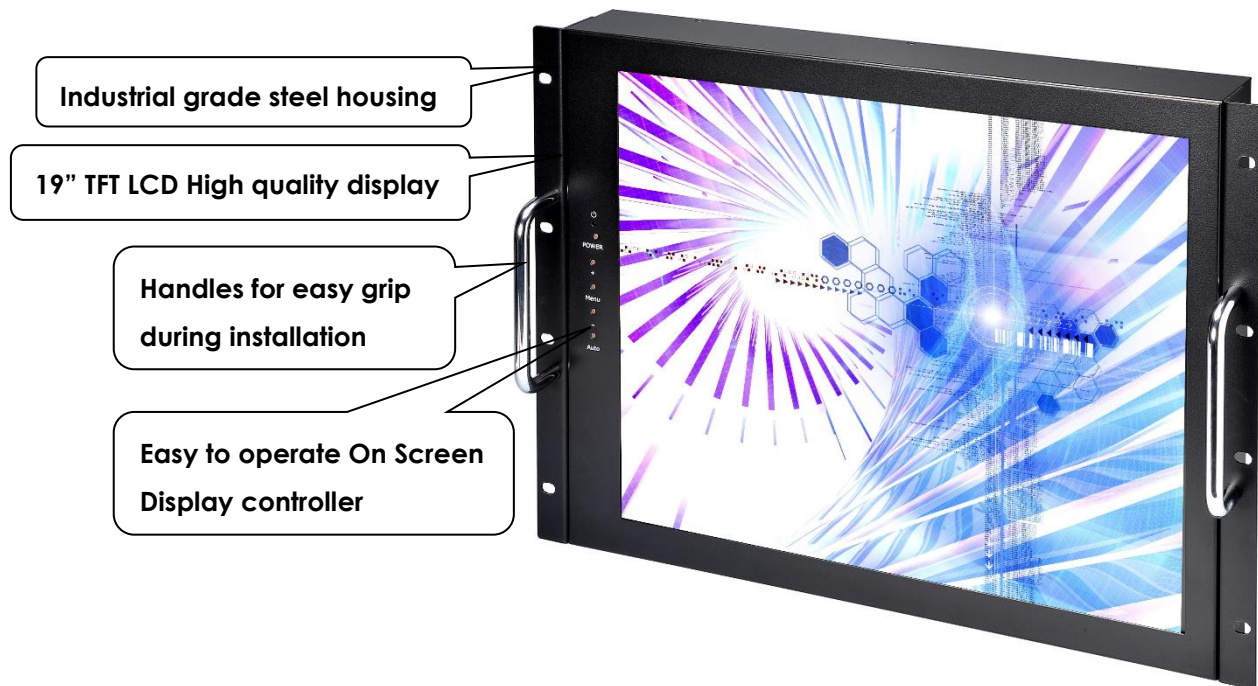
Ordering Information

GeNie-S03-01	Mini-ITX Chassis with (1) 3.5" drive bay, 200W power supply
GeNie-S03-02	Mini-ITX Chassis with (2) 3.5" drive bay, 200W power supply
GeNie-S03-03	Mini-ITX Chassis with (2) 2.5" & (1) slim ODD drive bay, 200W power supply
GeNie-S03-04	Mini-ITX Chassis with (4) 2.5" drive bay, 200W power supply
GeNie-S03-05	Mini-ITX Chassis with (4) 2.5" & (1) slim ODD drive bay, 200W power supply
GeNie-S03-06	Mini-ITX Chassis with (6) 2.5" drive bay, 200W power supply
GeNie-S03-08	Mini-ITX Chassis with (8) 2.5" drive bay, 200W power supply

LCD & KVM Products



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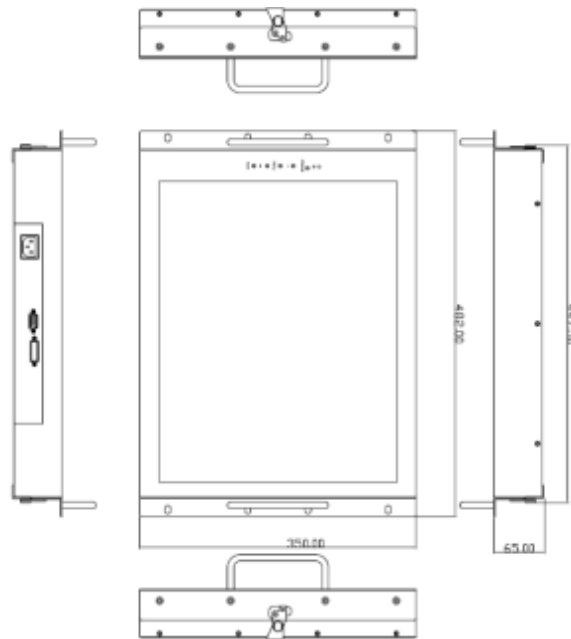
Introduction

The **AURORA-C819** is designed to provide users with friendly and clear visual monitoring device that can be easily fitted onto standard 19" rack. It supports 19" bright active matrix TFT LCD display in elegantly designed heavy duty steel housing. Ultra excellent display quality is supported by a maximum contrast ratio of 700:1 and a resolution up to (SXGA) 1280 x 1024 pixels for 19" version. It can be connected easily to your computer through standard VGA and DVI interface.

Features

- Standard 19" Rackmount 19" bright active matrix TFT LCD Display
- High contrast ratio, Wide-viewing angle and high brightness for high display quality
- On Screen Display (OSD) enable easy adjustment of display image
- Low power consumption
- Robust but light and elegantly designed external housing
- Optional Touch-screen function

Mechanical Drawing



Display Size

- 19 inch

Panel Type

- Active Matrix TFT LCD

Maximum Resolution

- 1280 x 1024

Pixel Pitch

- 0.294mm x 0.294mm

Contrast Ratio

- 700 : 1

Brightness

- 250cd/m²

Colors

- 16.2M

Display Interface

- DB15 VGA Port & DVI-I Port

Power Requirement

- 100 ~ 240V 1.5A, 50~60Hz

Operation Temperature

- 32 ~ 104°F (0 ~ 40°C)

Storage Temperature

- - 4 ~ 140°F (- 20 ~ 60°C)

Humidity

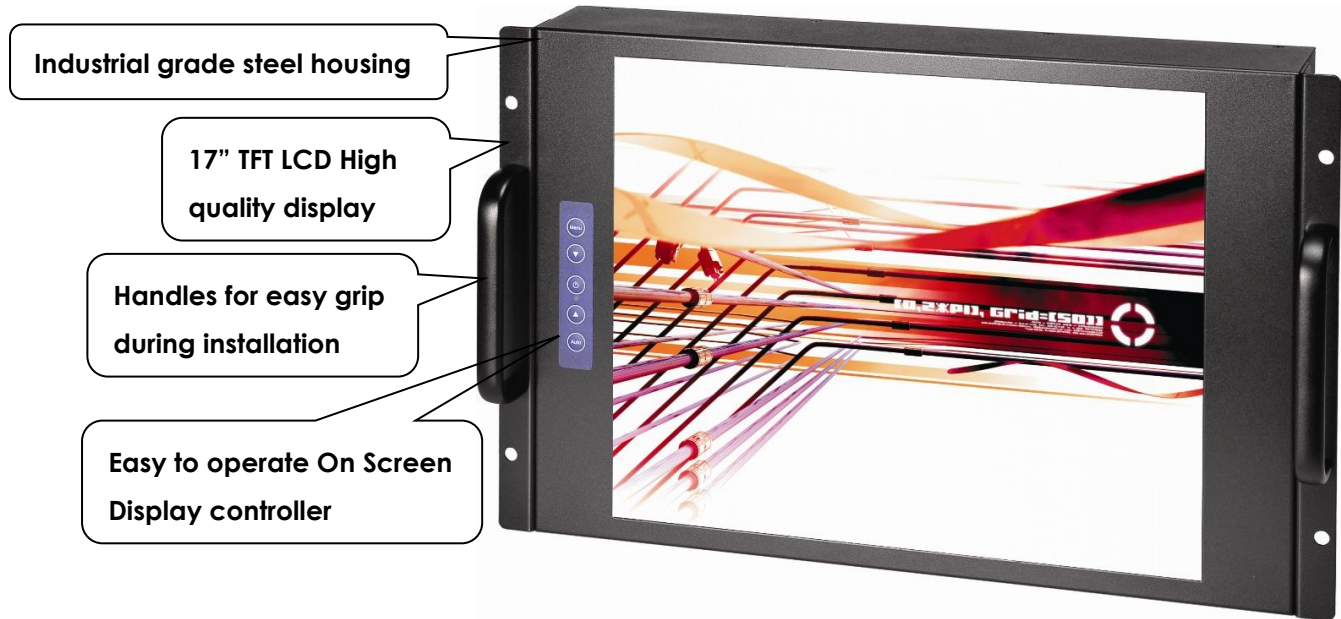
- 0 ~ 90% Non-Condensing

Dimension

- 482 (W) x 76.2 (D) x 355.6 (H) mm
- 19 (W) x 3 (D) x 14 (H) inches

Ordering Information

AURORA-C819 19" Rackmount TFT LCD
Monitor - Black



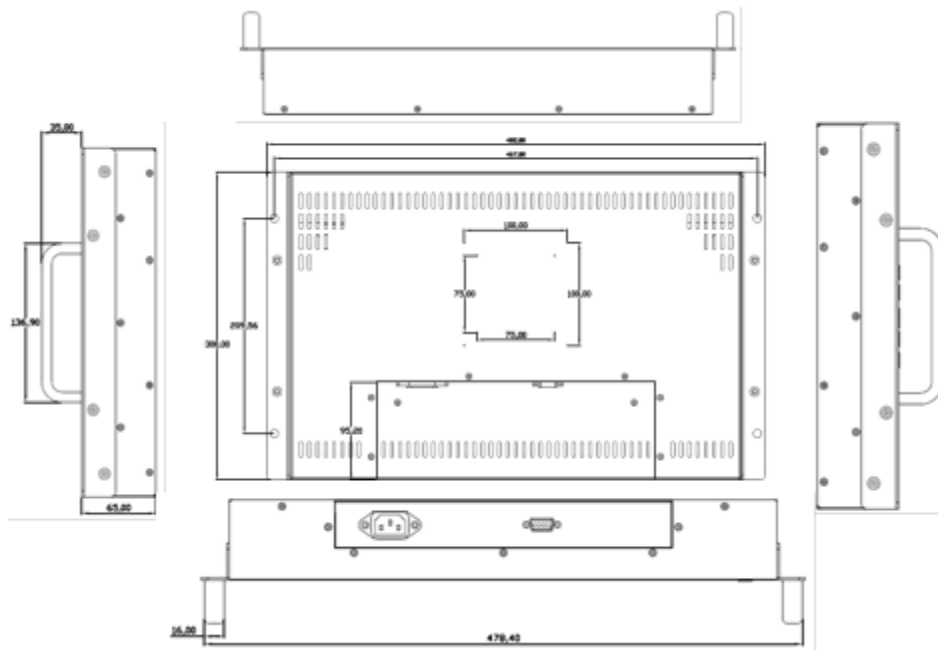
Introduction

The **AURORA-P** series is designed to provide users with friendly and clear visual monitoring device that can be easily fitted onto standard 19" rack. The series supports 17" bright active matrix TFT LCD display in elegantly designed heavy duty steel housing. It allows wide viewing angle R-L and U-D up to 70 degree. Ultra excellent display quality is supported by a maximum contrast ratio of 800:1 and a resolution up to (SXGA) 1280 x 1024 pixels for 17" version. It can be connected easily to your computer through standard VGA interface.

Features

- Standard 19" Rackmount 17" bright active matrix TFT LCD Display
- High contrast ratio, Wide-viewing angle and high brightness for high display quality
- On Screen Display (OSD) enable easy adjustment of display image
- Low power consumption
- Robust but light and elegantly designed external housing
- Optional Touch-screen function

Mechanical Drawing



Display Size

- 17 inch

Panel Type

- Active Matrix TFT LCD

Maximum Resolution

- 1280 x 1024

Pixel Pitch

- 0.264mm x 0.264mm

View Angle (Typical)

- R-L View 60 ~ 70 degree
- U-D View 45 ~ 60 degree

Contrast Ratio

- 800 : 1

Brightness

- 800 : 1

Backlight

- 4 lamps

Colors

- 16.2M

Display Interface

- DB15 VGA Port

Sync

- 45 ~ 80 KHz

Power Requirement

- 100 ~ 240 VAC

Power Consumption

- 19W

Temperature

- 0 ~ 50 Centigrade

Humidity

- 10% ~ 90% RH

Dimension

- 438 (W) x 63.5 (D) x 300 (H) mm
- 17 (W) x 2.5 (D) x 12(H) inches

Ordering Information

AURORA-P717	17" Rackmount TFT LCD Monitor - Black
AURORA-P717T	17" Rackmount TFT LCD Monitor with Resistive Touch Screen - Black

Industrial grade steel housing
with aluminum front bezel

15"/17"/19" TFT LCD High quality display
Protected by tempered glass

Handles for easy grip
during installation

Easy to operate On Screen
Display controller



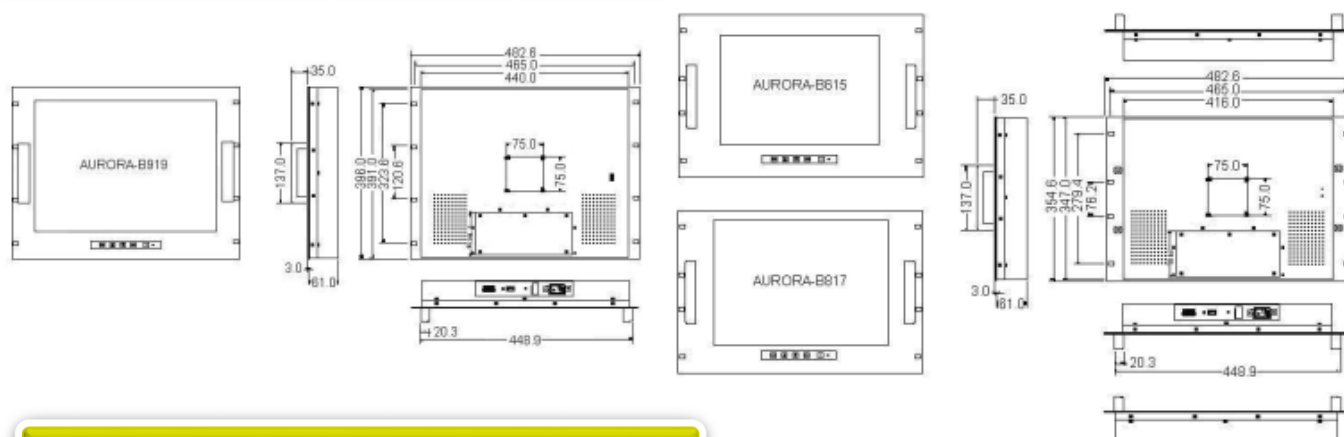
Introduction

The **AURORA-B** series is designed to provide users with friendly and clear visual monitoring device that can be easily fitted onto standard 19" rack. The series supports 15", 17" and 19" bright active matrix TFT LCD display in elegantly designed heavy duty steel housing. It allows wide viewing angle R-L and U-D up to 140 degree. Ultra excellent display quality is supported by a maximum contrast ratio of 500:1 and a resolution up to (SXGA) 1280 x 1024 pixels for 19" and 17" version. **AURORA-B** series also support Sun native resolution. It can be connected easily to your computer through standard VGA interface.

Features

- Standard 19" Rackmount 15"/17"/19" bright active matrix TFT LCD Display protected by tempered glass
- High contrast ratio, Wide-viewing angle and high brightness 250 cd/m2 from 4-CCFL backlight lamps for high display quality
- On Screen Display (OSD) enable easy adjustment of display image
- Support Sun native resolution
- Low power consumption
- Robust but light and elegantly designed external housing

Mechanical Drawing



Specifications

Model	AURORA-B919	AURORA-B817	AURORA-B815
Display Size	19"	17"	15"
Panel Type	Active Matrix TFT LCD		
Maximum Resolution	SXGA 1280 x 1024		XGA 1024 x 768
Pixel Pitch	0.098 x 0.294 mm	0.264 x 0.264 mm	0.297 x 0.297 mm
View Angle (Typical)	R-L view 140° U-D view 140°	R-L view 60°~70° U-D view 45°~60°	R-L view 130° U-D view 130°
Contrast Ratio	500:1	450:1	400:1
Brightness	White 250cd/m2		
Backlight	4 lamps		2 lamps
Colors	16.2M		
Connection	VGA Cable		
Sync	45~80KHz		
Power Source	100~240V AC		
Power Consumption	21.05W	19.05W	10.41W
Temperature	Operating: 0° ~ 50°C Storage: -20°C ~ 60°C		
Humidity	10% ~ 90% RH		
Dimension	482.6 (W) x 398.6 (D) x 64 (H)	482.6 (W) x 354.6 (D) x 64 (H) mm	
Weight	17.8Kg	15.2Kg	14.7Kg
Touch Panel	5-wire resistive USB		

Ordering Information

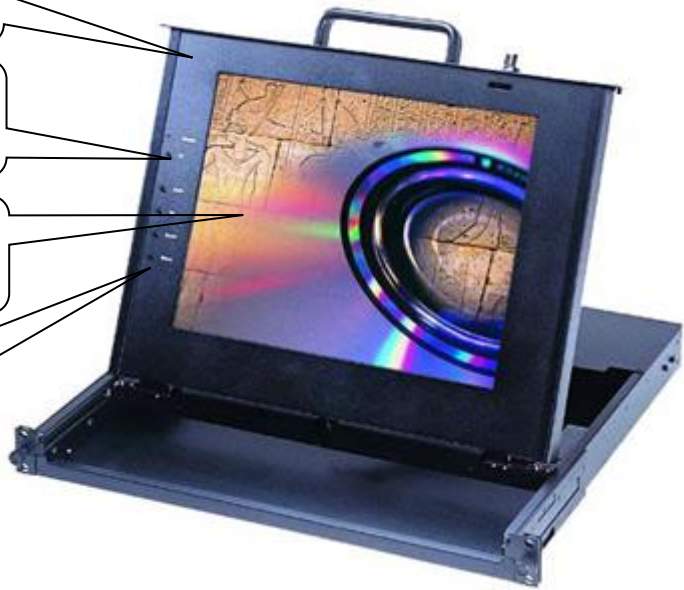
AUROBA-B919	19" Rackmount TFT LCD Monitor - Black
AUROBA-B919T	19" Rackmount TFT LCD Monitor with Resistive Touch Screen - Black
AURORA-B817	17" Rackmount TFT LCD Monitor - Black
AURORA-B817T	17" Rackmount TFT LCD Monitor with Resistive Touch Screen - Black
AURORA-B815	15" Rackmount TFT LCD Monitor - Black
AURORA-B815T	15" Rackmount TFT LCD Monitor with Resistive Touch Screen - Black

Industrial grade steel housing with aluminum front bezel

Easy to operate On Screen Display controller

15"/17" TFT LCD High quality display
Protected by tempered glass

Display rail allows users to select the most comfortable visual distance



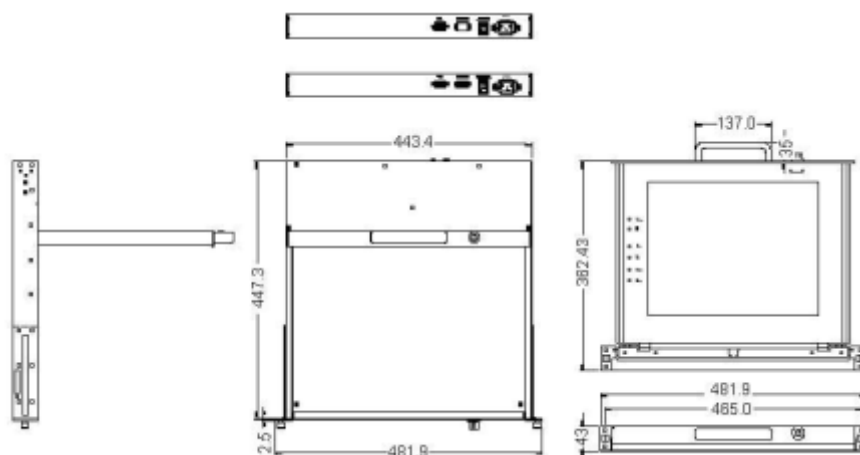
Introduction

The **MEDUSA-B** series is designed to provide users with friendly and clear visual monitoring device that can be easily fitted onto standard 19" rack and takes only 1U space. The series supports 15" and 17" bright active matrix TFT LCD display in an elegantly designed 1U heavy duty steel housing with rail to enable users to select the most comfortable visual distance. The LCD supports wide viewing angle R-L and U-D up to 140 degree. Ultra excellent display quality is supported by a maximum contrast ratio of 500:1 and a resolution up to (SXGA) 1280 x 1024 pixels for 17" version. **MEDUSA-B** series also support Sun native resolution. It can be connected easily to your computer through standard VGA interface.

Features

- Standard 19" Rackmount 15"/17" bright active matrix TFT LCD Display protected by tempered glass
- High contrast ratio, Wide-viewing angle and high brightness 250 cd/m2 from 4-CCFL backlight lamps for high display quality
- On Screen Display (OSD) enable easy adjustment of display image
- Support Sun native resolution
- Low power consumption
- Robust but light and elegantly designed external housing

Mechanical Drawing

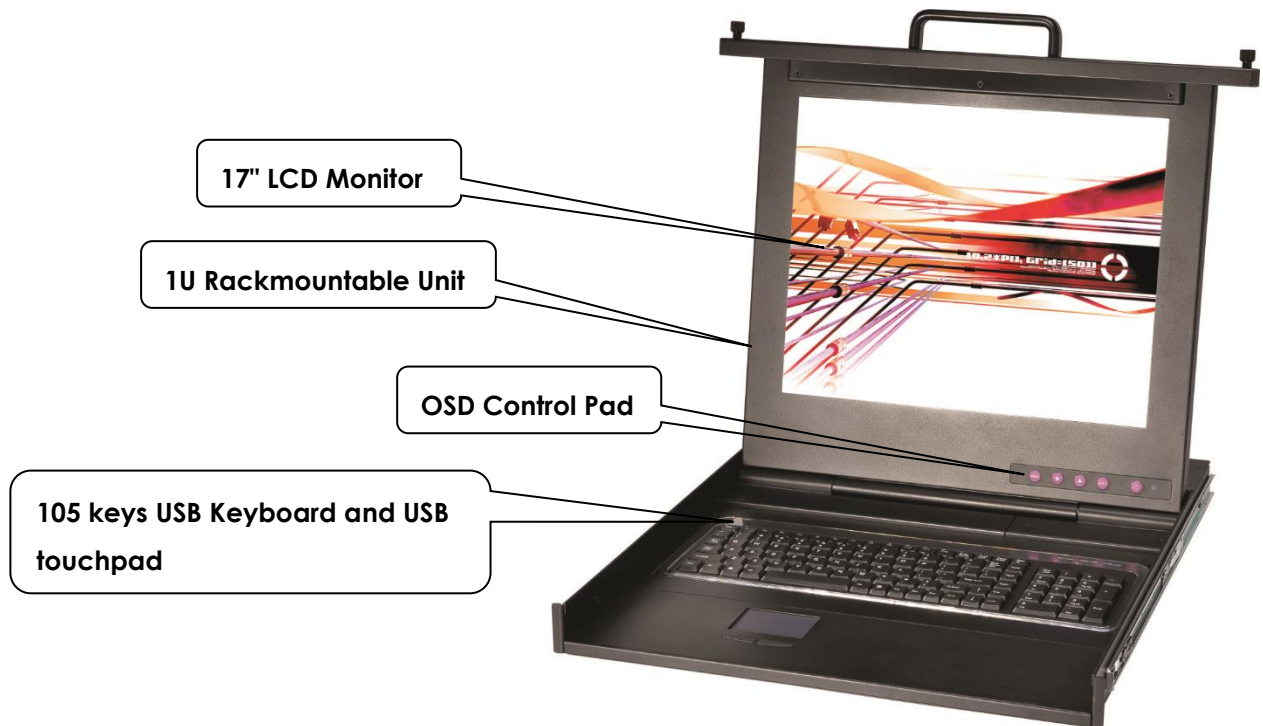


Specifications

Model	MEDUSA-B117	MEDUSA-B115
Display Size	17"	15"
Panel Type	Active Matrix TFT LCD	
Maximum Resolution	SXGA 1280 x 1024	XGA 1024 x 768
Pixel Pitch	0.264 x 0.264 mm	0.297 x 0.297 mm
View Angle (Typical)	R-L view 60°~70° U-D view 45°~60°	R-L view 130° U-D view 100°
Contrast Ratio	450:1	400:1
Brightness	White 250cd/m2	
Backlight	4 lamps	2 lamps
Colors	16.2M	
Connection	VGA Cable	
Sync	45~80KHz	
Power Source	100~240V AC	
Power Consumption	19.05W	10.41W
Temperature	Operating: 0° ~ 50°C Storage: -20°C ~ 60°C	
Humidity	10% ~ 90% RH	
Dimension	455 (W) x 450 (D) x 44 (H) mm	
Weight	11.4Kg	11.0Kg
Touch Panel	5-wire resistive USB	

Ordering Information

MEDUSA-B117	17" Rackmount TFT LCD Monitor - Black
MEDUSA-B117T	17" Rackmount TFT LCD Monitor with Resistive Touch Screen - Black
MEDUSA-B115	15" Rackmount TFT LCD Monitor - Black
MEDUSA-B115T	15" Rackmount TFT LCD Monitor with Resistive Touch Screen - Black



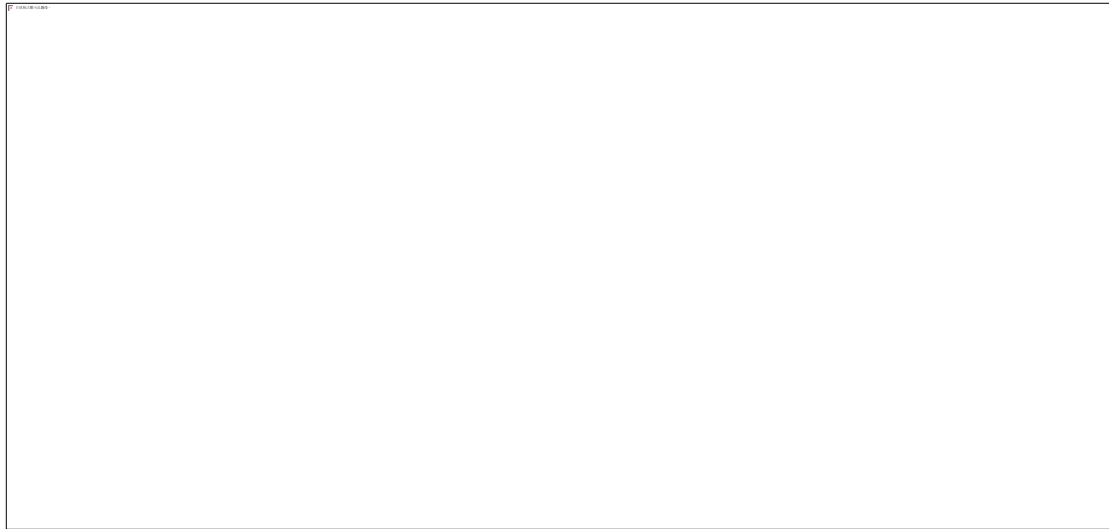
Introduction

CYCLOPS-K controls single computer from a 19" 1U rackmountable LCD/Keyboard drawer assists in efficient management of valuable space. It provides competitive low cost and more flexible combination. It is equipped with high quality 17" LCD monitor and a 105-key USB keyboard and touchpad. On Screen Display provides you with control over frequency, resolution, backlight luminance and brightness of the video display.

Features

- Cost effective LCD console
- Replaceable keyboard design
- Single rail easy to install and use
- Support more than 17 various keyboard languages
- Bright Active Matrix TFT display
- OSD function (On Screen Display) for LCD display

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Panel

- 17" LCD Monitor (1280 x 1024 of resolution)

Pixel Pitch

- 0.264 mm x 0.264 mm

Viewing Angle (CR>10)

- Right-Left view 60° ~ 70° (Typical)
- Up-Down View 45° ~ 60° (Typical)

Contrast Ratio

- 450 : 1

Response Time

- Rising Time 2 ms, Decay Time 14 ms

Connectors

- (1) VGA HDDB-15 pin, (1) USB, (1) DC Inlet

Keyboard & Mouse

- 105 keys USB keyboard and touchpad

Power Requirement

- 100 ~ 240 VAC input

Power Consumption

- 25 W

Support Operating System

- Dos, Windows (3.1, 9x, 2000, NT4, ME, XP, 2003 Server) Linux, Novell 3.12-6, HP UX, SUN

Dimensions

- 482 (W) x 517.2 (D) x 43.7 (H) mm
- 19.0 (W) x 20.4 (D) x 1.7 (H) inches

Operating Temperature

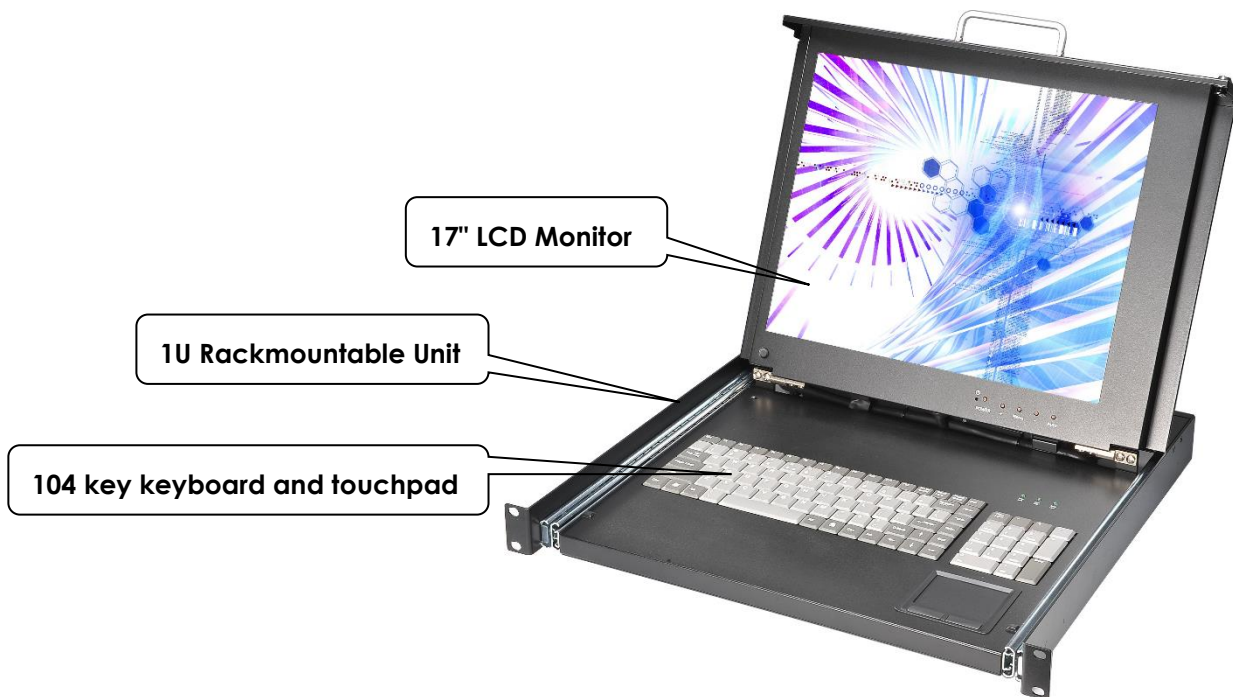
- 0~50 °C

Gross Weight

- 17kgs/37.5lbs

Ordering Information

CYCLOPS-K171 1U LCD/Keyboard Drawer with
17" LCD, USB keyboard and
touchpad



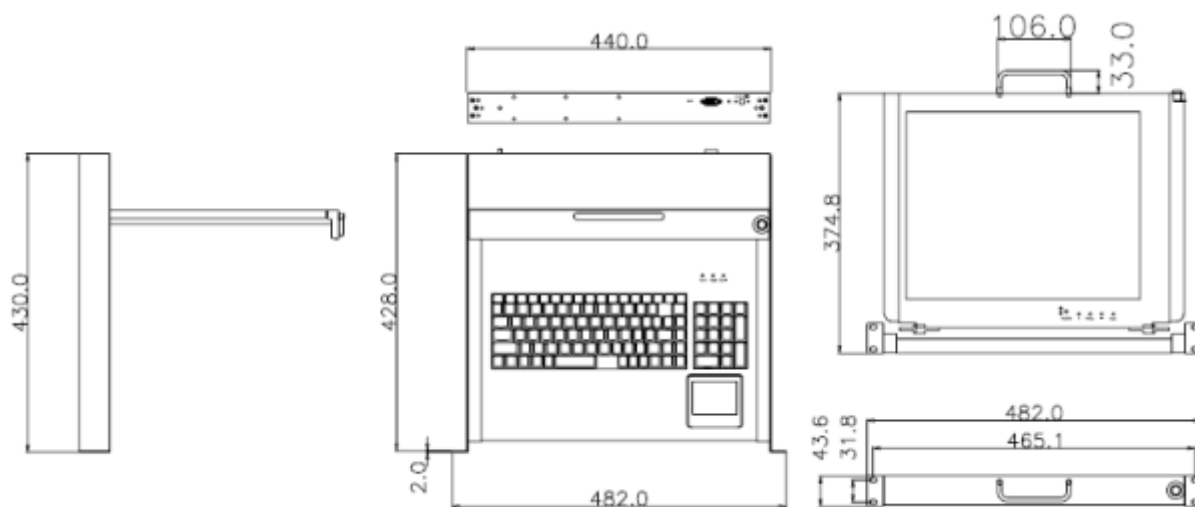
Introduction

CYCLOPS-C171 is a 19" 1U LCD keyboard drawer for controlling single computer with a depth of 430mm only hence it is very useful for short rack cabinet. It is equipped with high quality 17" LCD monitor and 104 keys industrial keyboard and touchpad with Multi Languages support. The new additional features of this console includes the easy reachable rail-lock switch to avoid user's fingers from being clipped when pushing back the console and also new rail design that enables a single person to mount the console into the rack easily.

Features

- Standard 19" Rackmount LCD Keyboard Drawer
- 17" TFT LCD Display
- Industrial Grade 104-key keyboard and touchpad
- 430mm deep, short version with adjustable rack slides for the rack depth from 430 to 977mm
- New rail design to enable single person to install the console into the rack
- OSD for control over display quality

Mechanical Drawing



Construction

- Heavy Duty steel

Color

- Black

Panel

- 17" TFT LCD with 1280 x 1024 resolution
- 0.264mm x 0.264mm pitch
- 700:1 (Typ) Contrast Ratio
- Brightness: 250cd/m2

Keyboard & Mouse

- 104 keys industrial keyboard and touchpad

On Screen Control

- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode.
- Automatic and Manual Scan mode

Video Input

- VGA HDDB 15 pin Female type

Drawer Design

- Full extension high load rating slide rail with rail-lock safety switch. Rail design enables single person do the installation

Dimensions

- 482 (W) x 430 (D) x 44 (H) mm

Operating Temperature

- 0~40 °C

Power Requirement

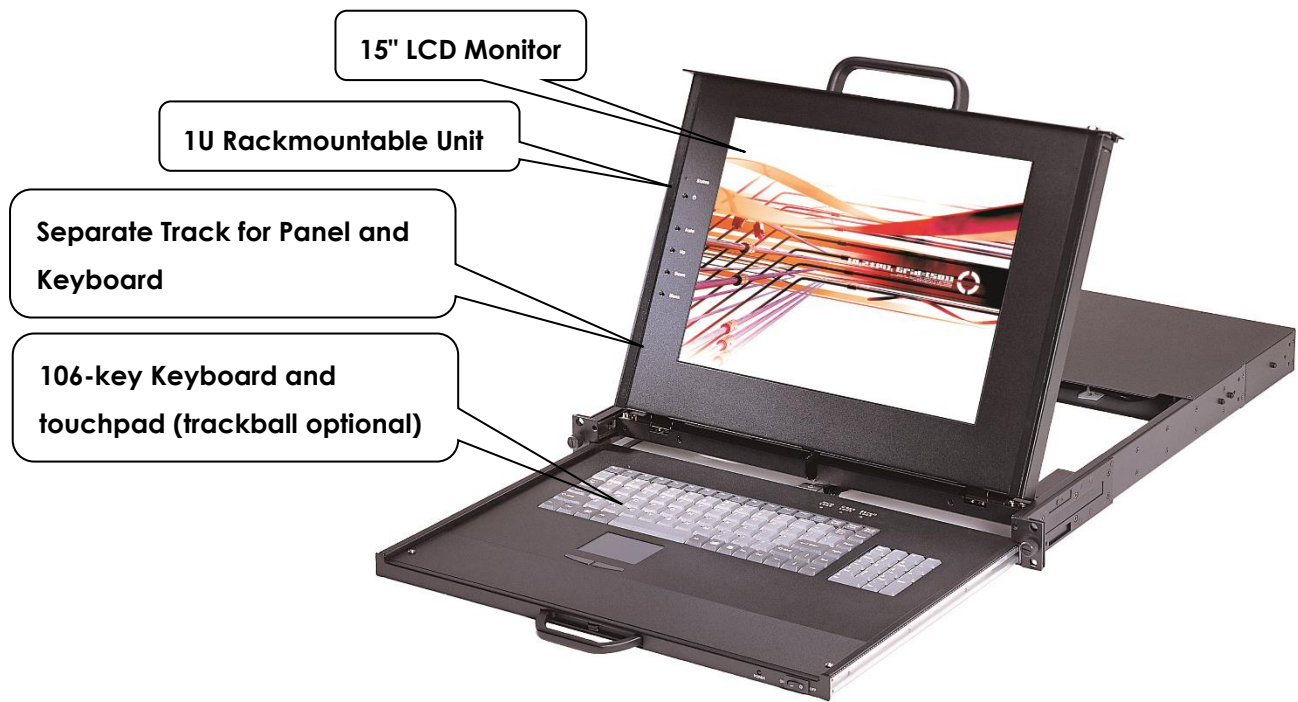
- 100 ~ 240V 1.5A, 50~60Hz

NET/Gross Weight

- 10/14kg

Ordering Information

CYCLOPS- 1U keyboard/LCD drawer with 17"
C171 monitor, industrial keyboard and touchpad



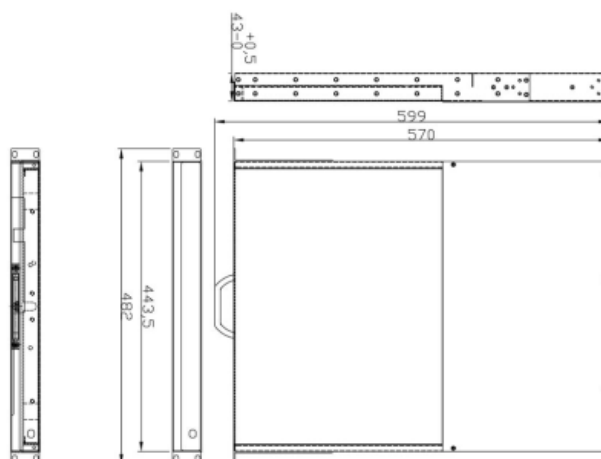
Introduction

CYCLOPS-B Series is a series of 19" 1U rackmountable KVM unit monitors and controls up to 16 computers (expandable to 128 computers), assists in efficient management of valuable space. It is equipped with high quality 15" LCD monitor and 106 keys industrial keyboard and touchpad. Two separate tracks for panel and keyboard allows users to choose most comfortable visual distance by moving the LCD closer to or away along provided tracks. This feature also enables the extraction of the LCD monitor the activities of connected servers through the closed glass door of your rack. All connected computers can be monitored comfortably using auto-scan function. On Screen Display provides you with control over frequency, resolution, backlight luminance and brightness of the video display. Password function enables limited access to all the computers for extra security.

Features

- 1U 8/16-port KVM unit with 15" LCD (Optional 17" LCD), industrial keyboard and touchpad or optional Cherry keyboard with trackball
- Expandable to control up to 128 computers.
- Password function for extra security
- Auto-Scan and Single Select functions
- On Screen Display to control frequency, resolution, backlight luminance and brightness of the video display
- Separate tracks for LCD panel and

Mechanical Drawing



Construction

- Heavy-Duty Steel

Color

- Black

Panel

- 15"/17" LCD monitor with up to 1024 x 768 / 1280 x 1024 of resolution (200 nits)

KVM Switch

- DB15 type female connectors (VGA, PS/2 keyboard and PS/2 mouse male connectors at the platform side)
- Port selection through hot keys or On Screen Display. Cascading up to 128 systems
- Password required for extra security
- Available in 8 or 16 ports.

Keyboard & Mouse

- PS/2 106 keys keyboard with industrial keyboard or optional Cherry keyboard with trackball

On Screen Control

- Auto adjustment for brightness, contrast, phases, H-V position, frequency, size, and display mode. Automatic and Manual Scan mode

Security Lock

- Front access lock for system security

Operating Temperature

- 0~50 °C

Drawer Design

- Full extension high load rating slide rail. Total drawer travel distance 385mm. Two separate tracks for panel and keyboard enables independent extraction of either panel or keyboard

Dimensions

- 445(W) x 570(D) x 44(H) mm

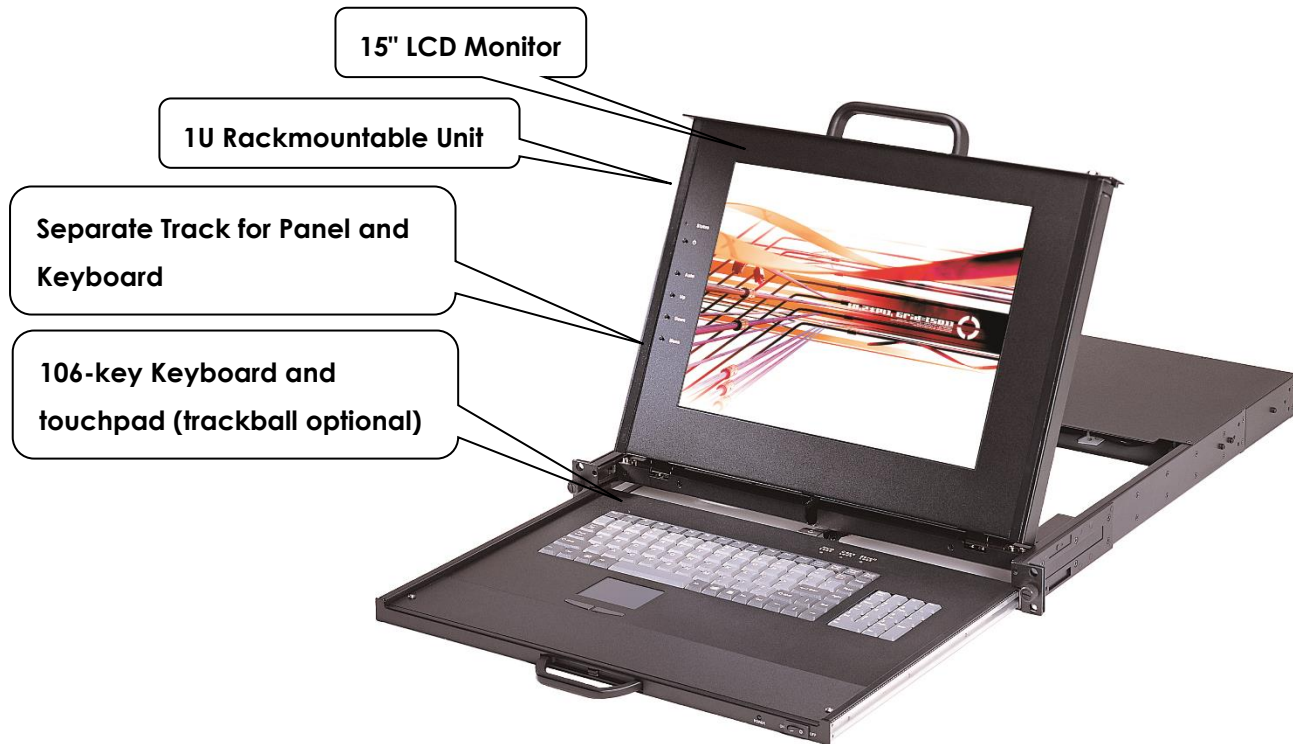
Gross Weight

- 16.5kg

Ordering Information

CYCLOPS-B158	15" 8-port KVM, with Touchpad
CYCLOPS-B158C	15" 8-port KVM, Cherry Keyboard & Trackball
CYCLOPS-B178	17" 8-port KVM with Touchpad
CYCLOPS-B178C	17" 8-port KVM, Cherry Keyboard & Trackball
CYCLOPS-B1516	15" 16-port KVM with Touchpad
CYCLOPS-B1516C	15" 16-port KVM, Cherry Keyboard & trackball
CYCLOPS-B1716	17" 16-port KVM with Touchpad
CYCLOPS-B1716C	17" 16-port KVM, Cherry Keyboard & Trackball
HBD-1601P	PS2 KVM Cable, 1.8M length, for Cyclops-B Series (See note below)
HBD-1603P	PS2 KVM Cable, 3.0M length, for Cyclops-B Series
HBD-1603P	PS2 KVM Cable, 3.0M length, for Cyclops-B Series

Note: One HBD-1601P included in all Cyclops-B Series



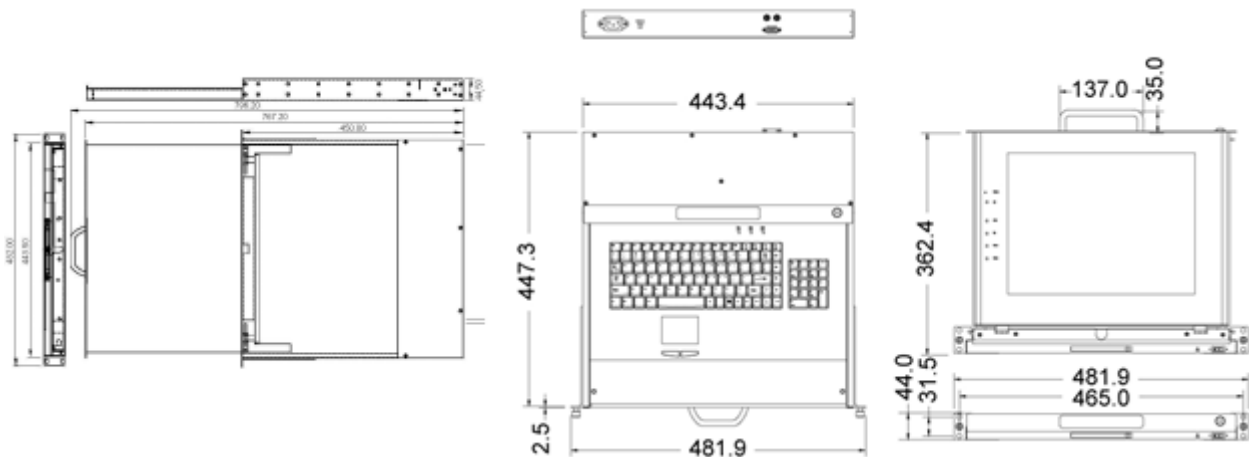
Introduction

CYCLOPS-B151 controls single computer from a 19" 1U rackmountable LCD/Keyboard drawer assists in efficient management of valuable space. It is equipped with high quality 15" LCD monitor and a 106-key industrial keyboard and touchpad. Two separate tracks for panel and keyboard allows users to choose most comfortable visual distance by moving the LCD closer to or away along provided tracks. This feature also enables the extraction that only the LCD and monitor activities of connected servers through the closed glass door of your rack. On Screen Display provides you with control over frequency, resolution, backlight luminance and brightness of the video display.

Features

- 19" 1U rackmountable LCD/Keyboard drawer with 15"/17"/19" LCD, 106-key keyboard and touchpad or optional Cherry keyboard with trackball
- On Screen Display to control frequency, resolution, backlight luminance and brightness of the video display
- Separate tracks for LCD panel and keyboard to allow for the most comfortable visual distance

Mechanical Drawing



Construction

- Heavy duty Steel

Color

- Black

Panel

- 15" LCD Monitor (1024x768 with 200 nits brightness)

Keyboard & Mouse

- 106 keys Industrial Keyboard and Touchpad
- Optional Cherry Keyboard with Trackball, or SUN System Keyboard, or USB interface Keyboard

On Screen Display Control

- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode.
- Automatic and Manual Scan mode

Security Lock

- Front access Lock for system security

Drawer Design

- Full extension high load rating Slide rail. Total drawer travel distance 315mm. Two separate tracks for LCD monitor and Keyboard enables independent extraction of either LCD monitor or Keyboard

Dimensions (W x D x H)

- 15": 443.5 x 450 x 44 mm / 17.5 x 17.7 x 1.7 inches
- 17": 443.5 x 450 x 44 mm / 17.5 x 17.7 x 1.7 inches
- 19": 443.5 x 511.3 x 44 mm / 17.5 x 20.1 x 1.7 inches

Operating Temperature

- 0~50 °C

Gross Weight

- 15": 15.5kg; 17": 16.4kg; 19": 19kg

Ordering Information

CYCLOPS-B151	1U LCD/Keyboard Drawer with 15" monitor, with PS/2 Industrial K/B and Touchpad
CYCLOPS-B151U	CYCLOPS-B151 with USB Keyboard and Touchpad
CYCLOPS-B151C	CYCLOPS-B151 with Cherry Keyboard & Trackball
CYCLOPS-B151T	CYCLOPS-B151 with USB interface Touchscreen
CYCLOPS-B151D	CYCLOPS-B151 with USB Keyboard and Touchpad, and DVI input
CYCLOPS-B171	1U LCD/Keyboard Drawer with 17" monitor, with PS/2 Industrial K/B and Touchpad
CYCLOPS-B171U	CYCLOPS-B171 with USB Keyboard and Touchpad
CYCLOPS-B171C	CYCLOPS-B171 with Cherry Keyboard & Trackball
CYCLOPS-B171T	CYCLOPS-B171 with USB interface Touchscreen
CYCLOPS-B171S	CYCLOPS-B171 with USB Keyboard and Touchpad for SUN System
CYCLOPS-B171D	CYCLOPS-B171 with USB Keyboard and Touchpad, and DVI input



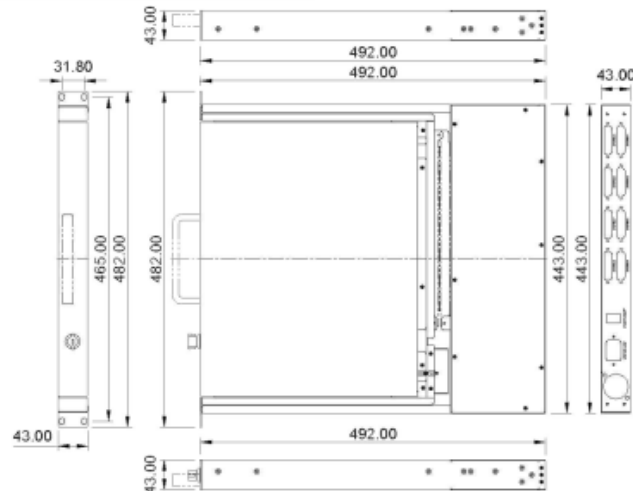
Introduction

CYCLOPS-D Series is a series of 1U rackmountable KVM consoles monitors and controls up to 8 computers (expandable to 512 computers), assists in efficient management of valuable space. It is equipped with high quality 15" or 17" LCD monitor and 106 key industrial keyboard and touchpad. The **CYCLOPS-D** Series are designed to satisfy users from high-end market with elegantly designed and highly functional product with incredibly competitive price. It is equipped with special designed slider for smooth extraction and high-grade wrist-pad for operational comfort. All connected computers can be monitored comfortably using auto-scan function. On Screen Display provides you with control over frequency, resolution, backlight luminance and brightness of the video display

Features

- 1U 8-port KVM units with 15"/17" LCD display, industrial PS/2 Cherry keyboard with integrated Trackball
- Expandable to control up to 512 computers.
- Special design slider for smooth extraction
- Single DB25 pin connectors for each port for effective cable management
- Auto-Scan and Single Select functions
- On Screen Display to control frequency, resolution, backlight luminance and brightness of the video display
- Built-In low power consumption power

Mechanical Drawing



Construction

- SECC with Ni Coating

Color

- Black or metallic blue

Panel

- 15"/17" LCD with 250 nit brightness, 16.7 million display colors with maximum resolution (XGA) 1024 x 768

KVM Switch

- Ports access through front panel switch, hotkey and OSD control. DB25 Ports access trough front panel switch, hotkey and OSD control. DB25 pin type female connectors for 8 platform connections (VGA, PS/2 keyboard and PS/2 mouse male connectors at the platform side). Cascading up to 512 systems.

Keyboard & Mouse

- Industrial PS/2 83-key Cherry keyboard with integrated Trackball

On Screen Control

- Menu, Auto adjustment, brightness, contrast, phase, H-V position, pitch, zoom, color, language and OSD position Automatic and Manual Scan mode display mode. Automatic and Manual Scan mode

Security Lock

- Front access lock for system security

Drawer Design

- Special slider for smooth extraction and wrist pad for trackball version

Dimensions

- 15": 443 (W) x 492 (D) x 43 (H) mm
17.5 (W) x 19.4 (D) x 1.7 (H) inches
- 17": 443 (W) x 548 (D) x 43 (H) mm
17.5 (W) x 21.6 (D) x 1.7 (H) inches

Operating Temperature

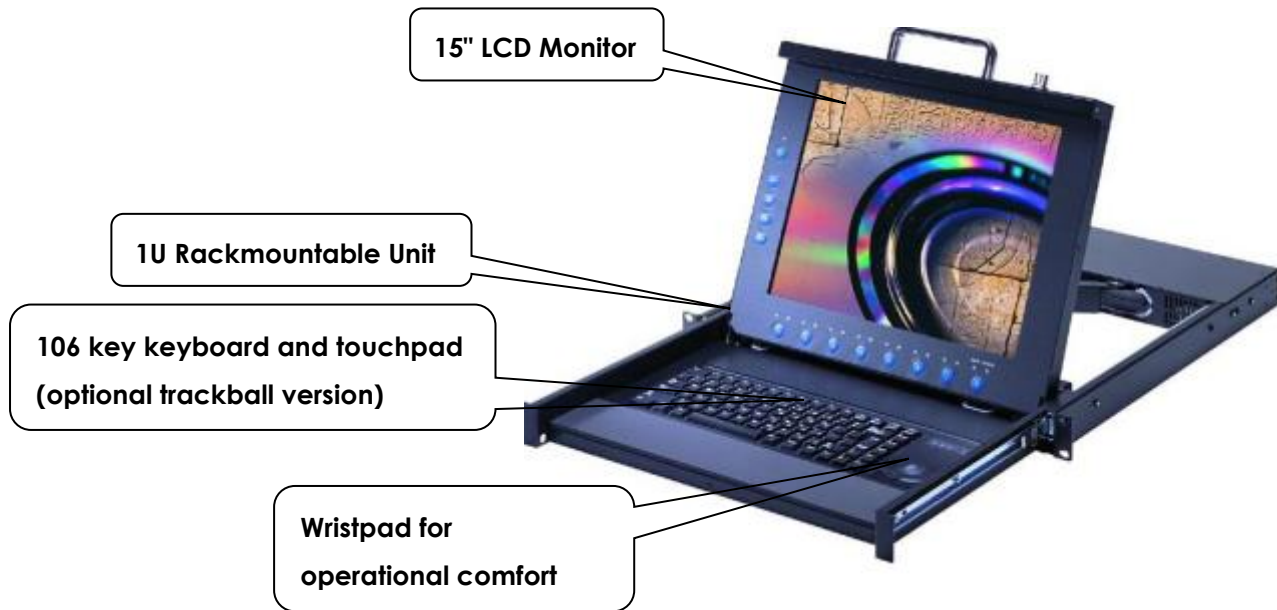
- 0~50 °C

Gross Weight

- 15": 17.5kg/38.675 lbs
- 17": 18.6kg/41 lbs

Ordering Information

CYCLOPS-D158C	1U 8 Port KVM switch, 15"LCD, Cherry keyboard, trackball, and one 2L-1601P
CYCLOPS-D178C	1U 8 Port KVM switch, 17"LCD, Cherry keyboard, trackball, and one 2L-1601P
2L-1601P	KVM cable 1.8 M, PS/2 for CYCLOPS D series
2L-1603P	KVM cable 3.0 M, PS/2 for CYCLOPS D series



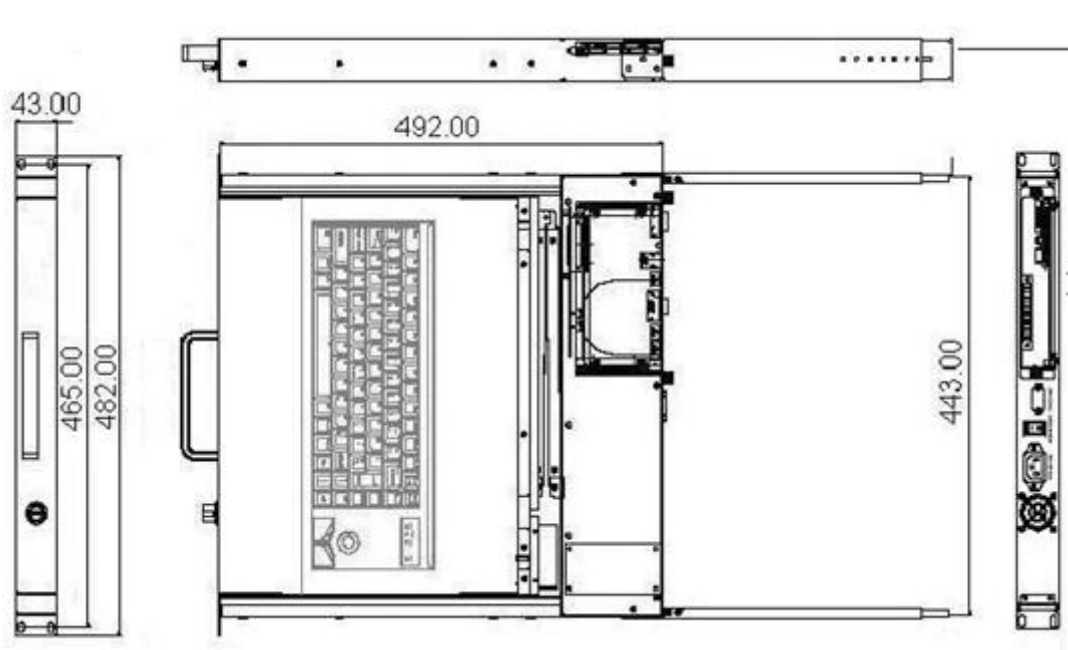
Introduction

CYCLOPS-D151 is 1U rackmountable LCD/Keyboard Drawer with high quality 15" LCD monitor and 106 key industrial keyboard and touchpad. The **CYCLOPS-D151** is designed to satisfy users from high-end market with elegantly designed and highly functional product with incredibly competitive price. It is equipped with special designed slider for smooth extraction and high-grade wristpad for operational comfort. On Screen Display provides you with control over frequency, resolution, backlight luminance and brightness of the video display. Optional 17" LCD and Cherry keyboard with trackball are also available.

Features

- 1U compact design LCD/Keyboard Drawer with 15"/17" High Bright LCD Screen
- Industrial slim keyboard+ touchpad or Cherry keyboard+ trackball
- Special design slider for smooth extraction
- On Screen Display to control frequency, resolution, backlight luminance and brightness of the video

Mechanical Drawing



Construction

- SPCC with Ni Coating

Color

- Black

Panel

- 15"/17" LCD with 250 nit brightness, 16.7 million display colors with maximum resolution (XGA) 1024 x 768/1280 x 1024

KVM Switch

- N/A

Keyboard & Mouse

- PS/2 106 key industrial keyboard and touch pad or optional Cherry keyboard with trackball

On Screen Control

- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode.
- Automatic and Manual Scan mode

Security Lock

- Front access lock for system security

Drawer Design

- Special slider for smooth extraction and wrist pad for trackball version

Dimensions

- 443 (W) x 492 (D) x 43 (H) mm

Operating Temperature

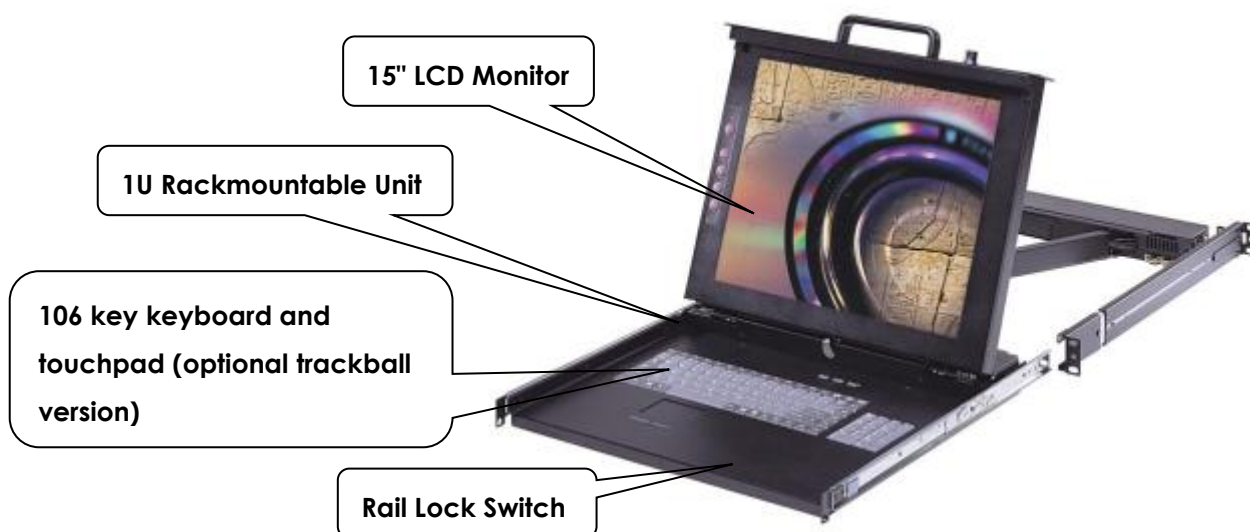
- 0~50 °C

Gross Weight

- 16.5kg

Ordering Information

CYCLOPS-D151	1U LCD/Keyboard Drawer with 15"LCD, industrial slim keyboard and touchpad
CYCLOPS-D151C	1U LCD/Keyboard Drawer with 15"LCD, Cherry keyboard and trackball
CYCLOPS-D171	1U LCD/Keyboard Drawer with 17"LCD, industrial slim keyboard and touchpad
CYCLOPS-D171C	1U LCD/Keyboard Drawer with 17"LCD, Cherry keyboard and trackball



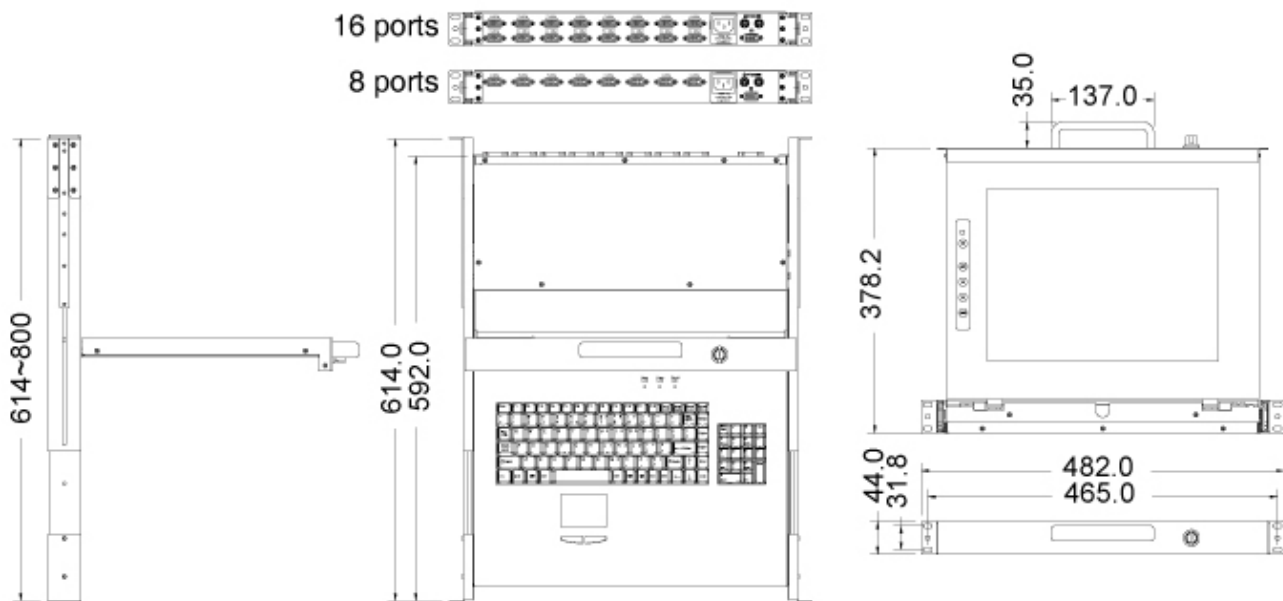
Introduction

CYCLOPS-G Series is a series of 19" cost efficient 1U rackmountable KVM unit monitors and controls up to 16 computers (expandable to 128 computers), assists in efficient management of valuable space. The series provides options of 15", 17" or 19" LCD monitor. On Screen Display provides you with control over frequency, resolution, backlight luminance and brightness of the video display. Password function enables limited access to all the computers for extra security. The new additional features of this console includes the easy reachable rail-lock switch to avoid user's fingers from being clipped when pushing back the console and also new rail design that enables a single person to mount the console into the rack easily. Console that supports SUN systems is also available.

Features

- 19" 1U 8/16-port Combo-free KVM switch with 15"/17"/19" LCD display and 106-key Keyboard and Touchpad
- Expandable to control up to 128 computers
- OSD menu to control frequency, resolution, backlight luminance and brightness of the video display
- Rail-Lock Switch for maximum safety
- Options available for:
 - Combo-free with Cherry Keyboard and Trackball
 - DVI inputs and USB ports
 - SUN System keyboard for 17" and 19" LCD panel
 - Push buttons with LED indication for direct port selection

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Panel

- 15" LCD with 1024 x 768 resolution
- 17" and 19" with 1280 x 1024 resolution

KVM Switch

- 8-port or 16-port Combo-free VGA, USB&PS/2 keyboard and mouse Switch
- Port selection through hot keys or OSD Display
- Cascading up to 128 systems
- Password function for extra security

Keyboard & Mouse

- 106 keys industrial keyboard and touchpad
- Optional Cherry keyboard with integral industrial trackball. Keyboard for SUN systems also available.

On Screen Control

- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode. Automatic and manual scan mode.

Security Lock

- Front access lock for system security

Drawer Design

- Full extension slide rail with rail-lock safety switch. Enables single person installation

Dimensions

- 15"/17": 482 (W) x 614 (D) x 44 (H) mm
- 19": 482 (W) x 664 (D) x 44 (H) mm

Operating Temperature

- 0~50 °C

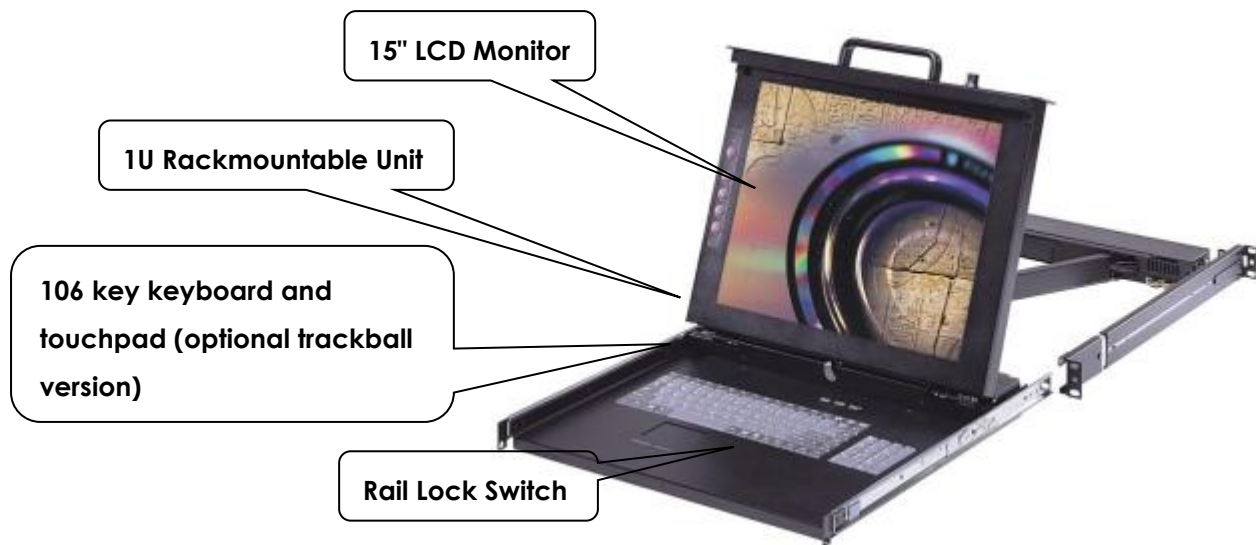
Gross Weight

- 15"/17": 19kg
- 19": 22kg

Ordering Information

CYCLOPS-G158F	1U 8-port KVM switch, 15"LCD, Combo-free (USB&PS/2) K/B and Touchpad
CYCLOPS-G158CF	1U 8-port KVM switch, 15"LCD, Combo-free Cherry keyboard and Trackball
CYCLOPS-G158D	1U 8-port KVM switch, 15"LCD, DVI input, USB Keyboard and Touchpad
CYCLOPS-GP158F	1U 8-port KVM switch, 15"LCD, Combo-free (USB&PS/2) K/B&Touchpad, w/Push button
CYCLOPS-G178F	1U 8-port KVM switch, 17"LCD, Combo-free (USB&PS/2) K/B and Touchpad
CYCLOPS-G178CF	1U 8-port KVM switch, 17"LCD, Combo-free Cherry Keyboard and Trackball
CYCLOPS-G178D	1U 8-port KVM switch, 17"LCD, DVI input, USB Keyboard and Touchpad
CYCLOPS-G178S	1U 8-port KVM switch, 17"LCD, SUN Keyboard and Touchpad
CYCLOPS-G198F	1U 8-port KVM switch, 19"LCD, Combo-free (USB&PS/2) K/B and Touchpad
CYCLOPS-G198CF	1U 8-port KVM switch, 17"LCD, Combo-free Cherry Keyboard and Trackball
CYCLOPS-G1516F	1U 16-port KVM switch, 15"LCD, Combo-free (USB&PS/2) K/B and Touchpad
CYCLOPS-G1516CF	1U 16-port KVM switch, 15"LCD, Combo-free Cherry keyboard and Trackball
CYCLOPS-G1716F	1U 16-port KVM switch, 17"LCD, Combo-free (USB&PS/2) K/B and Touchpad
CYCLOPS-G1716CF	1U 16-port KVM switch, 17"LCD, Combo-free Cherry keyboard and Trackball
CYCLOPS-G1916F	1U 16-port KVM switch, 19"LCD, Combo-free (USB&PS/2) K/B and Touchpad
CYCLOPS-G1916CF	1U 16-port KVM switch, 19"LCD, Combo-free Cherry keyboard and Trackball

**All options are available for 17"&19" 8/16-port KVM*



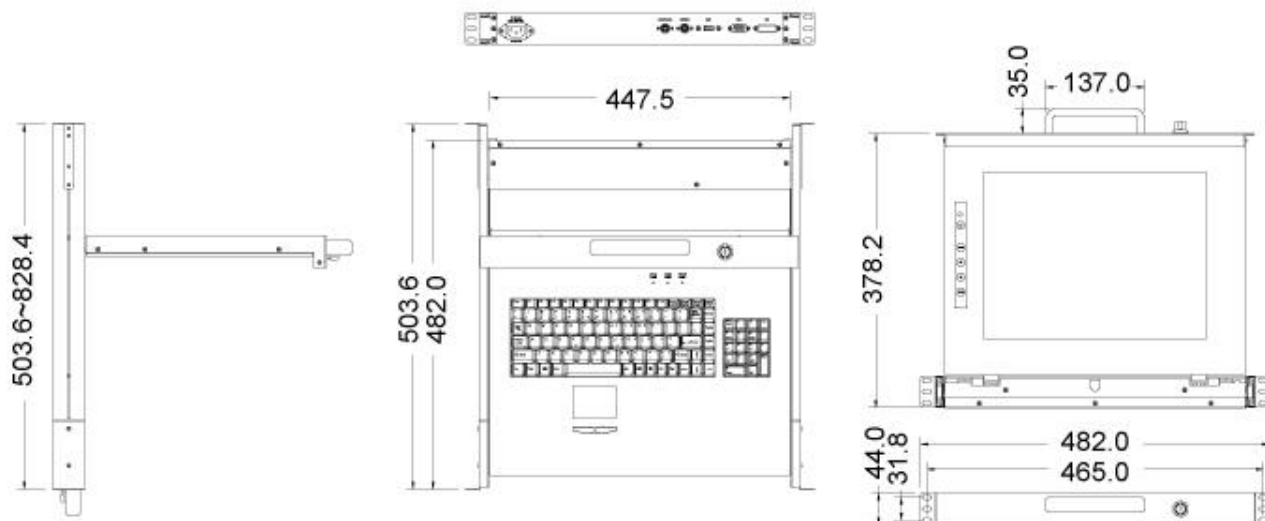
Introduction

CYCLOPS-G151 controls single computer from a 19" 1U rackmountable LCD/Keyboard drawer assists in efficient management of valuable space. It is an alternative low cost solution of CYCLOPS-D151. It is equipped with high quality 15" LCD monitor and 106 keys industrial keyboard and touchpad with Multi Languages support. The new additional features of this console includes the easy reachable rail-lock switch to avoid user's fingers from being clipped when pushing back the console and also new rail design that enables a single person to mount the console into the rack easily. The unit is also available in 17" and 19" LCD versions that support SUN system are also available.

Features

- Standard 1U 19" Rackmount LCD Keyboard Drawer
- 15"/17"/19"/20.1" TFT LCD Display
- Industrial grade 106-key Keyboard and Touchpad
- Optional USB Touchscreen
- Optional USB port, Cherry keyboard w/integrated Trackball and SUN system
- Optional DC power input for 12VDC, 24VDC and 48VDC power inputs
- Rail-Lock switch for maximum safety
- OSD menu for optimum display quality control
- New rail design to enable single person to install the console into the rack
- Built-in low power consumption power supply
- 447.5 x 482 x 43.8mm (WxDxH)

Mechanical Drawing



Construction

- Heavy Duty steel

Color

- Black

Panel

- 15" LCD with 1024 x 768 resolution
- 17" and 19" with 1280 x 1024 resolution

KVM Switch

- N/A

Keyboard & Mouse

- 106-key industrial Keyboard and Touchpad
- Optional Cherry keyboard with integral industrial trackball
- Optional Keyboard for SUN systems

On Screen Control

- Auto adjustment, brightness, contrast, phases, H-V position, frequency, size, and display mode.
- Automatic and Manual Scan mode

Security Lock

- Front access lock for system security

Drawer Design

- Full extension high load rating slide rail with rail-lock safety switch. Rail design enables single person do the installation

Dimensions (W x D x H)

- 15"/17": 447.5 x 482 x 43.8mm
- 19": 447.5 x 532.44 x 43.8mm
- 20": 447.5 x 608.7 x 43.8mm

Operating Temperature

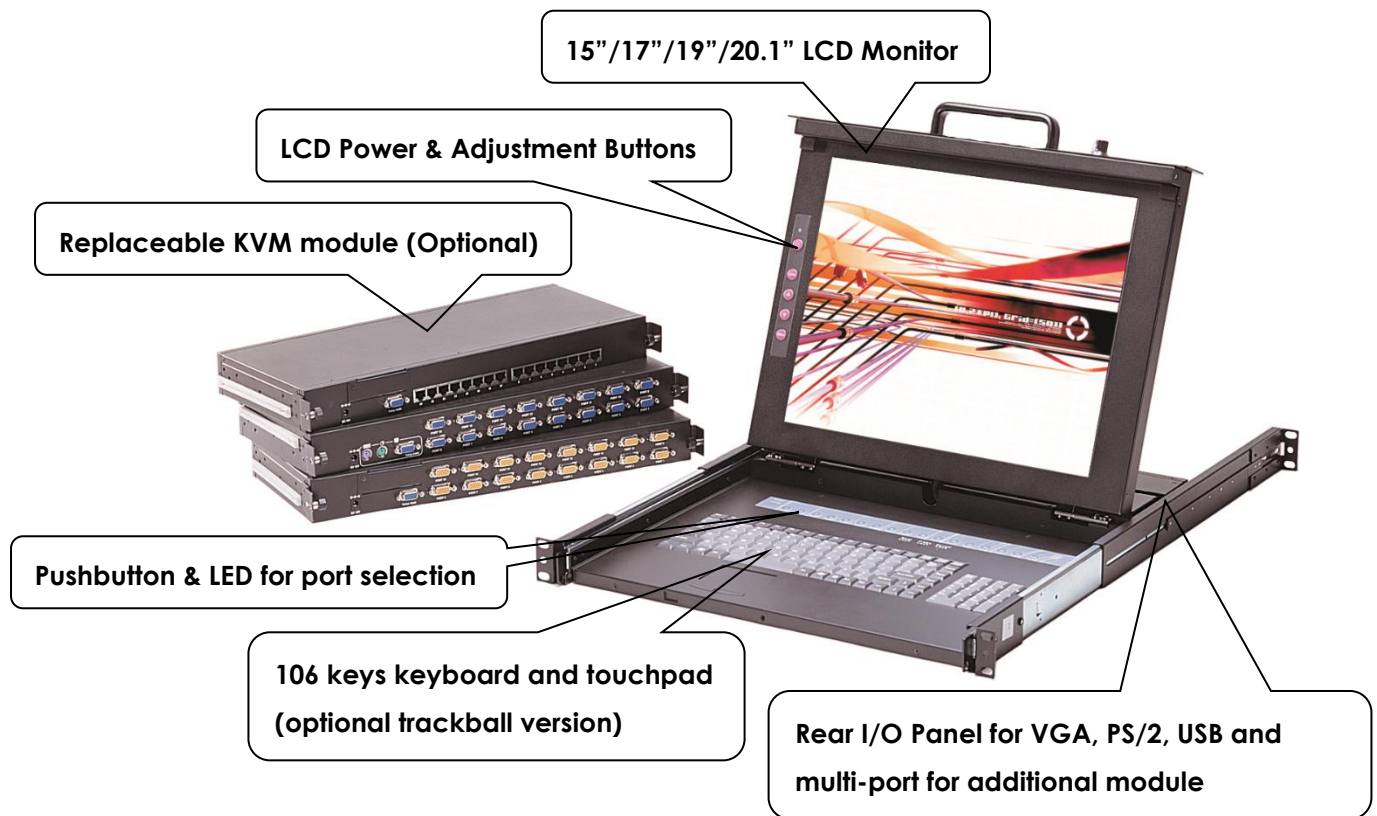
- 0~50 °C

Gross Weight

- 15"/17": 17kg
- 19": 19kg
- 20": 22.6kg

Ordering Information

CYCLOPS-G151	1U LCD Keyboard drawer with 15" LCD, industrial PS/2 Keyboard and Touchpad
CYCLOPS-G171	1U LCD Keyboard drawer with 17" LCD, industrial PS/2 Keyboard and Touchpad
CYCLOPS-G191	1U LCD Keyboard drawer with 19" LCD, industrial PS/2 Keyboard and Touchpad
CYCLOPS-G151U	1U LCD Keyboard drawer with 15" LCD, industrial USB Keyboard and Touchpad
CYCLOPS-G171U	1U LCD Keyboard drawer with 17" LCD, industrial USB Keyboard and Touchpad
CYCLOPS-G191U	1U keyboard/LCD drawer with 17" LCD, industrial USB Keyboard and Touchpad
CYCLOPS-G151C	1U keyboard/LCD drawer with 15" LCD, Cherry Keyboard and Trackball
CYCLOPS-G171C	1U keyboard/LCD drawer with 17" LCD, Cherry Keyboard and Trackball
CYCLOPS-G191C	1U keyboard/LCD drawer with 19" LCD, Cherry Keyboard and Trackball
CYCLOPS-G151T	CYCLOPS-G151 with USB interface Touchscreen
CYCLOPS-G171T	CYCLOPS-G171 with USB interface Touchscreen
CYCLOPS-G191T	CYCLOPS-G191 with USB interface Touchscreen
CYCLOPS-G151D	CYCLOPS-G151 with DVI-I interface input1
CYCLOPS-G151DU	CYCLOPS-G151U with DVI-I interface input1
CYCLOPS-G151S	1U keyboard/LCD drawer with 15" LCD, K/B and Touchpad for SUN System1
CYCLOPS-G201	1U keyboard/LCD drawer with 20" LCD, industrial PS/2 Keyboard and Touchpad



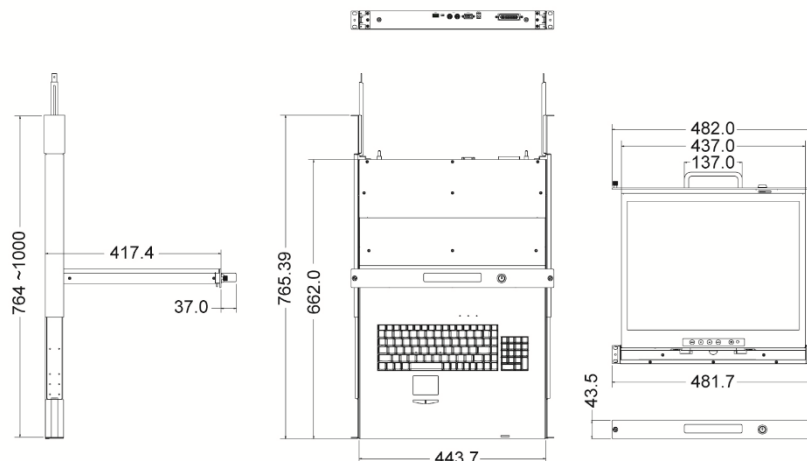
Introduction

Hercules series are alternative solution of Cyclops series with unique modular design which will enable users to expand the KVM switch by installing more than 14 models of KVM switches into the back of the console. The series provide option of 15" 17" 19" or 20.1" LCD monitor. 106 keys industrial keyboard and touchpad with Multi Languages support. The new additional features of this console enable a single person to mount the console into the rack easily. The keyboard drawer that support SUN system is also available.

Features

- One multi-port for additional KVM switch module
- Supports PS/2 and USB keyboard/mouse
- Provides pushbuttons, OSD and hotkey for port selection
- 1U rackmount LCD/Keyboard drawer with up to 1600 x 1200 of resolution (20.1" MAX)
- On Screen Display to control frequency, resolution, backlight luminance and brightness of the video display
- Rail-Lock Switch for maximum safety
- New rail design to enable single person to install the console into the rack

Mechanical Drawing



Construction

- Heavy Duty Steel

Color

- Black

Panel

- 15" LCD with 1024 x 768 resolution
- 17" and 19" with 1280 x 1024 resolution

KVM Switch

- Optional KVM module: MY-8D/MY-16D/VS-8D/VS-16D/MS-8D/MS-16D

Keyboard & Mouse

- 106 keys industrial keyboard and touchpad or optional Cherry keyboard with integral industrial trackball. PS/2 and USB port on rear side; Keyboard for SUN systems also available

On Screen Control

- Auto adjustment, brightness, contrast, phases, H-V pos DC Power adapter : 12V, 1A
- Display mode. Automatic and Manual Scan mode

Security Lock

- Front access lock for system security

Drawer Design

- Full extension slide rail with rail-lock safety switch. Enables single person installation

Dimensions

- 447 (W) x 470 (D) x 44 (H) mm for 15"/17"
- 447 (W) x 520 (D) x 44 (H) mm for 19" LCD
- 443.7 (W) x 662 (D) x 44 (H) mm for 20.1 LCD

Operating Temperature

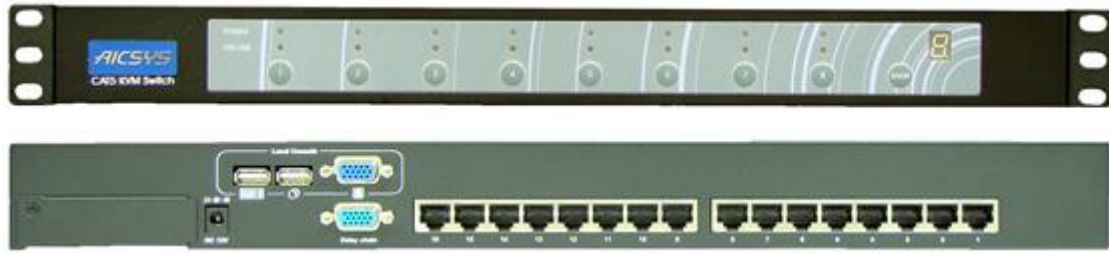
- 0~50 °C

Gross Weight

- 16.5kg

Ordering Information

HERCULES-G 151	15" monitor
	G151F supports PS/2 and USB keyboard/mouse
	G151S for SUN system G151C for Cherry Keyboard
HERCULES-G 171	17" monitor
	G171F supports PS/2 and USB keyboard/mouse
	G171S for SUN system G171C for Cherry Keyboard
HERCULES-G 191	19" monitor
	G191F supports PS/2 and USB keyboard/mouse
	G191S for SUN system G191C for Cherry Keyboard
HERCULES-G 201	20.1" monitor
	G201F supports PS/2 and USB



Introduction

With the MS CAT5 KVM Switch users can use the CAT5 cable to control multiple computers with one keyboard, monitor and mouse.

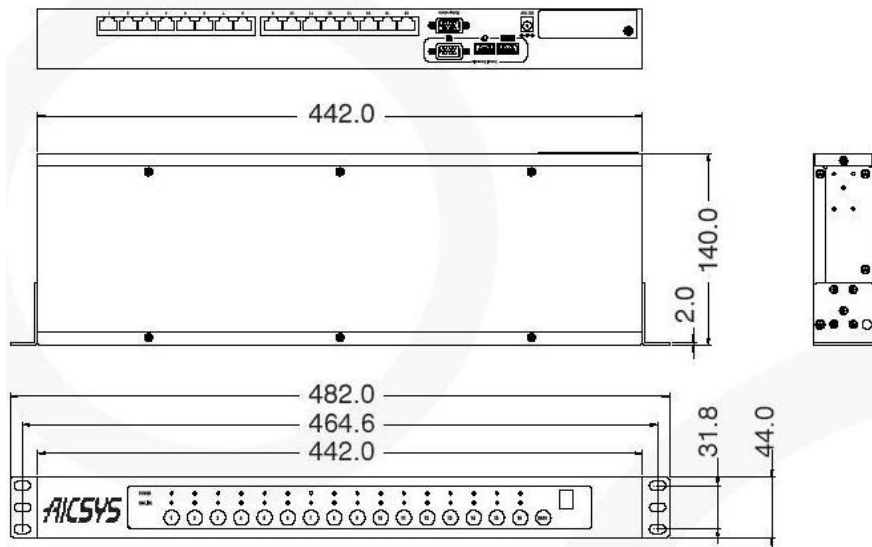
The optional CAT5 remote console module of this KVM switch enables users to locate keyboard, mouse and monitor up to 1000 feet away from the KVM switch. With optional IP module users can control their keyboard, mouse and monitor through internet. Some other features such as one local console port, Daisy chain capability, On Screen Display (OSD) menu, password security, Searching PC server name, hotkey control, push button and auto-scan control, complete keyboard and mouse emulation for simultaneously PC boot-up processes.

The KVM uses standard CAT5 cable to save cable layout and cable installation cost.

Features

- 8 / 16 - port CAT5 KVM switch
- Supports up to two users with optional CAT5 module or IP module
- Provides PS/2 and USB interface for PC connection
- Supports Windows, DOS, Netware, Unix and Linux
- Supports MAC and Sun Micro Systems through USB port
- No Software Required - easy PC selection via On Screen Display (OSD) menu, push buttons, hotkeys
- Provides various hotkey (Scroll-Lock / Cap-Lock / Num-Lock / Alt / Ctrl / Win) for switching PC port and other control functions
- Provides ACL (Access Control List) security function
- Hot Plug - connected PCs without re-booting KVM switch or PC
- PC/ server name search function
- Supports Daisy Chain function with 8-layer topologies

Mechanical Drawing



PC Ports

- 8/16 Ports with RJ45 connectors

MAX Distance (KVM Switch to Host)

- 130 feet (40M)

Video Resolution (Local Console)

- 1920 x 1440

Video Resolution (Remote Console)

- 1600 x 1200 CAT5 (remote console) (500 feet)
- 1024 x 768 CAT5 (remote console) (1000 feet)
- 1280 x 1024 (IP remote console)

Console Ports

- One (One Local)
- Optional one CAT5-Based Remote Console or one IP Based Remote Console

CAT5 COMBO Dongle

- 3 to 1 CAT5 combo transmitter dongle. Combine three cables (keyboard, mouse and VGA) into one CAT5 cable before connecting to KVM switch. Support PS/2 and USB cable in the same dongle

CAT5 Remote Console

- RJ-45 Connector
- CAT5 console up to 1000 feet away from KVM switch with superior auto-adjust RGB gain/delay control capability

IP Remote Console

- RJ-45 Connector, Serial Port, Mini 5-Pin USB for mass storage

Daisy Chain Port

- Supports Daisy Chain function with 8-layer bus topologies
- D-Sub 15 pin connector (Female Type)

PC Port Indicators

- Power & Operation for each port

Security

- Provides ACL (Access Control List) security function, store up to 8 independent controllable PC lists

OSD (On Screen Display)

- 8 languages (English, France, German, Spanish, Italian, Russian, Japanese, Chinese)

Auto Scan Intervals

- 5 ~ 99 seconds

Keyboard & Mouse Emulation

- PS/2 & USB
- Keyboard/mouse status restored when switching PC

MS-8/MS-16

MAX PC Connection

- 120 for MS-8; 128 for MS-16

Power

- DC Power adapter: 12V, 2.5A

Operation Temperature

- 0~50 °C

Humidity

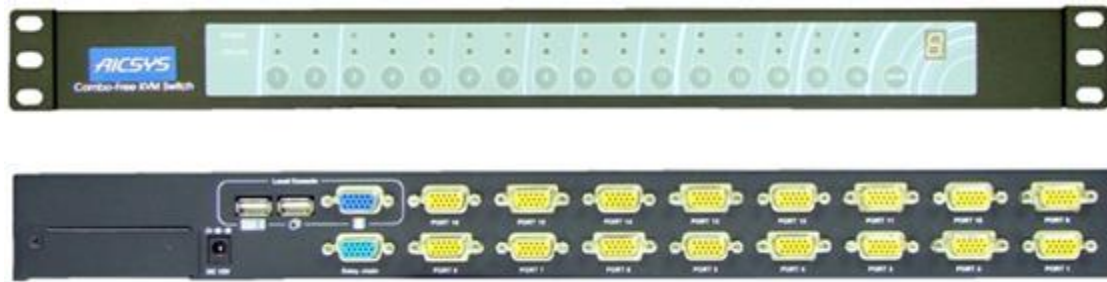
- 0 ~ 80 %, Non-Condensing

Dimension

- 442 (W) x 140 (D) x 44 (H) mm

Ordering Information

KVM MS-8	8 port CAT5 KVM switch
KVM MS-16	16 port CAT5 KVM switch
Combo Dongle	KVM to PC cable; 3 to 1 CAT5 combo transmitter dongle with VGA & Keyboard & Mouse (PS/2 & USB) output
HDB-2D15	Daisy chain cable (D-sub 15P to D-sub 15P)
IP module	For VS& MS series 2nd IP remote console through internet
Cat5 module & R-kit	For VS& MS series 2nd CAT5 remote console & Receiver kit



Introduction

The VS-8/ VS-16 Combo-Free 8/16 ports KVM switch supports up to two users to control multiple computers, with one user from local console and the other from CAT5 remote console or IP Console through internet.

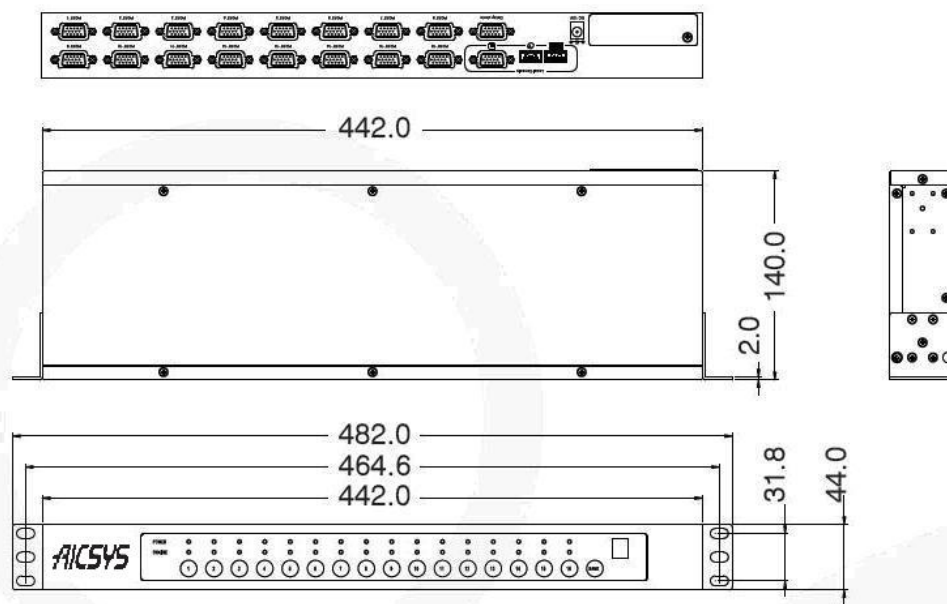
The VS-8/VS16 provides various hotkeys (Scroll-Lock / Cap-Lock / Num-Lock / Alt / Ctrl / Win) for switching PC port and other control functions, so hotkey function can be used in various types of keyboards, and to avoid hotkey duplicate problem

With the Combo-Free KVM Switch, users can use PS/2 & USB type cables to control multiple PC or servers. Other features such as one local console port, Daisy chain capability, On Screen Display (OSD) menu, password security, and searching PC server name, hotkey control, push button and Auto-Scan control that enhances user's friendly application.

Features

- 8 / 16 - ports combo-free KVM switch
- Supports up to two users with optional CAT5 module or IP module
- Provides PS/2 and USB interface for PC connection
- Supports Windows, DOS, Netware, Unix and Linux
- Supports MAC and Sun Micro Systems through USB port
- No Software Required - easy PC selection via On Screen Display (OSD) menu, push buttons, hotkey
- Provides ACL (Access Control List) security function
- Hot Plug - add or remove connected PCs without re-booting KVM switch or PC
- PC/ server name Search function
- High Video Quality
- Supports Daisy Chain function with 8-layer Bus topologies

Mechanical Drawing



PC Ports

- 8/16 Ports with D-sub 15pin connectors

MAX Distance (KVM Switch to Host)

- 48 feet (15 m)

Video Resolution (Local Console)

- 1920 x 1440

Video Resolution (Remote Console)

- 1600 x 1200 for CAT5 remote console (500 feet)
- 1024 x 768 for CAT5 remote console (1000 feet)
- 1280 x 1024 for IP remote console

Console Ports

- One (One Local)
- Optional one CAT5-Based Remote Console or one IP Based Remote Console

CAT5 Remote Console

- RJ-45 Connector
- CAT5 console up to 1000 feet away from KVM switch with superior auto-adjust RGB

IP Remote Console

- RJ-45 Connector, Serial Port, Mini 5-Pin USB for mass storage

Daisy Chain Port

- Supports Daisy Chain function with 8-layer bus topologies

PC Selection

- On Screen Display (OSD) menu, hotkey, push button

PC Port Indicators

- Power & Operation for each port

Security

- Provides ACL (Access Control List) security function, store up to 8 independent controllable PC lists

OSD (On Screen Display)

- 8 languages (English, France, German, Spanish, Italian, Russian, Japanese, Chinese)

Auto Scan Intervals

- 5 ~ 99 seconds

Keyboard & Mouse Emulation

- PS/2 & USB
- Keyboard/mouse status restored when switching PC

MAX PC Connection

- 120 for VS-8; 128 for VS-16

Power

- DC Power adapter: 12V, 2.5A

Operation Temperature

- 0~50 °C

Humidity

- 0 ~ 80 %, Non-Condensing

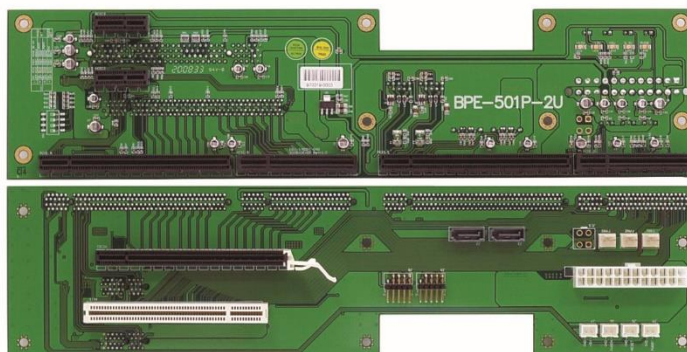
Dimension

- 442 (W) x 140 (D) x 44 (H) mm

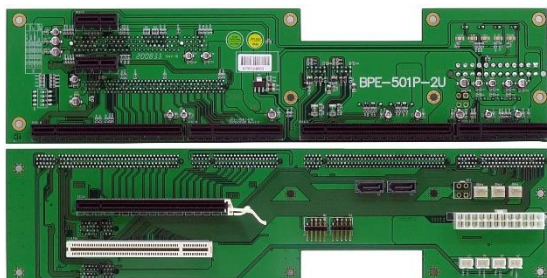
Ordering Information

KVM VS-8	8 port Combo-free KVM switch
KVM VS-16	16 port Combo-free KVM switch
HDB-1601P	1.8m KVM to PC cable (PS/2)
HDB-1603P	3m KVM to PC cable (PS/2)
HDB-1605P	5m KVM to PC cable (PS/2)
HDB-1610P	10m KVM to PC cable (PS/2)
HDB-1615P	15m KVM to PC cable (PS/2)
HDB-1601U	1.8m KVM to PC cable (USB)
HDB-1603U	3m KVM to PC cable (USB)
HDB-1605U	5m KVM to PC cable (USB)
HDB-1610U	10m KVM to PC cable (USB)
HDB-1615U	15m KVM to PC cable (USB)
HDB-2D15	Daisy chain cable (D-sub 15P to D-sub 15P)
IP module	for VS& MS series 2nd IP remote console through internet
Cat5 module	for VS& MS series 2nd CAT5
& R-kit	remote console & Receiver kit

Backplanes



BPE-501P-2U



Specification

- 5-Slot 2U PICMG 1.3 Backplane
- PICMG ver. 1.3 RC1.0 SHB slot for SHB Express
- PCIe x16 slot
- PCIe x1 slots
- PCI 32 bit 5V slots
- SATA connectors
- Supports ATX 24P power connector
- Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

BPE-0502P-2U



Specification

- 5-Slot 2U PICMG 1.3 Backplane
- (1) PCIe x16 slot
- (1) PCIe x4 slot (1X compatible)
- (2) PCI 32 bit 5V slots
- SATA connectors
- USB connectors
- Supports ATX 24P power connector
- Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

BPE-0605E-2U



Specification

- 6-Slot 2U PICMG 1.3 Backplane
- (1) PICMG ver. 1.3 RC1.0 SHB slot for SHB Express
- (4) PCIe x1 slot
- (2) SATA connectors
- (2) USB connectors
- Supports ATX 24P power connector
- (2) Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

BPE-0603P



Specification

- 6-Slot PICMG 1.3 Backplane
- (1) PICMG ver. 1.3 RC1.0 SHB slot for SHB Express
- (3) PCI slots
- (1) PCIe x4 slot
- (1) PCIe x16 slot
- (2) SATA connectors
- Supports ATX 24P power connector
- (2) Connectors for 3-pin fans
- Power LEDs
- Multilayer PCB

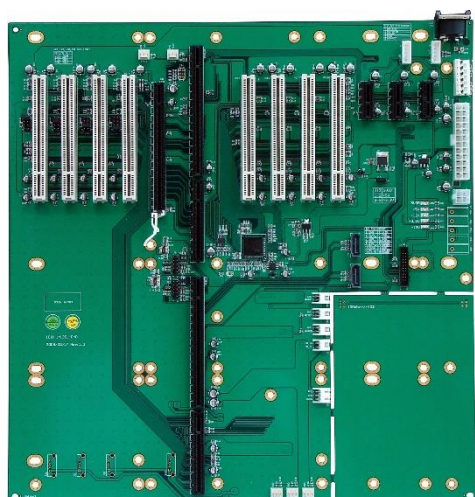
BPE-1306PE



Specification

- 13-Slot Bridged PICMG 1.3 Backplane
- Full-Size PICMG 1.3 CPU Slots
- (1) PCIe x16 Gen 2.0
- (5) PCIe x4
- (7) PCI Slots
- (2) USB 2.0 pin headers
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector

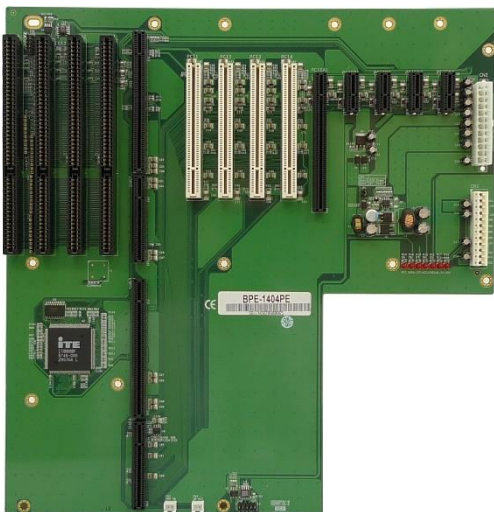
BPE-1308A



Specification

- 13-Slot PICMG 1.3 Backplane
- (1) PCIe x16 slot
- (3) PCIe x1 slot
- (8) PCI 32 bit 5V slots
- SATA connectors
- USB ports (A type female) or by Pin Header
- Supports ATX 24P power connector
- Connectors for 3-pin fans
- AT keyboard connector
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector
- PCI-E 16x slot also supports PCI-E

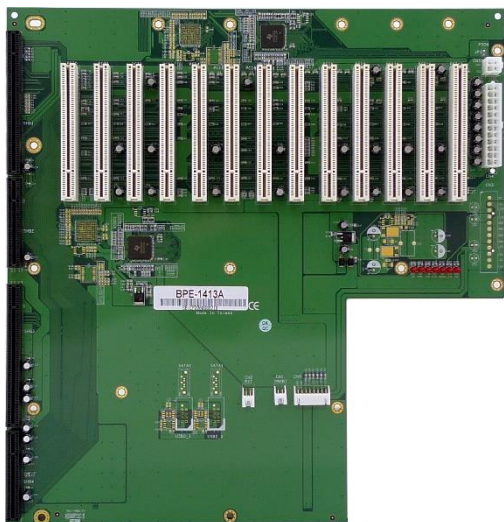
BPE-1404PE



Specification

- 14-Slot Passive PICMG 1.3 Backplane
- Full-Size PICMG 1.3 CPU Slots
- (4) PCI Slots
- (4) ISA Slots
- (1) PCIE 16x
- (4) PCIE 4x Slots
- Power Indicator LEDs
- Multilayer PCB
- AT/ATX Power Connector

BPE-1413A



Specification

- 14-Slot Bridged PICMG 1.3 Backplane
- Full-Size PICMG 1.3 CPU Slots
- (13) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector

BP-0604P



Specification

- 6-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (1) ISA Slot
- (4) PCI Slots (one shared with ISA Slot)
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

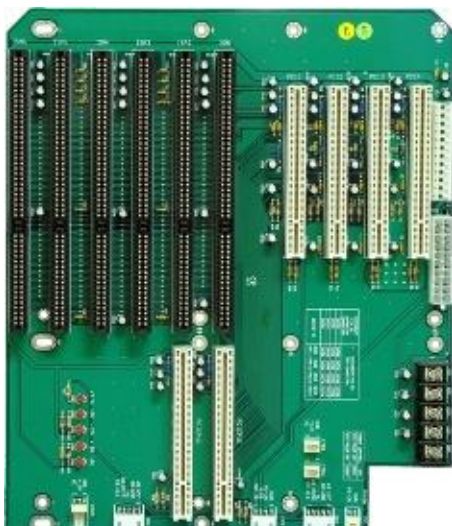
BP-0804P



Specification

- 8-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (2) ISA Slots
- (4) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

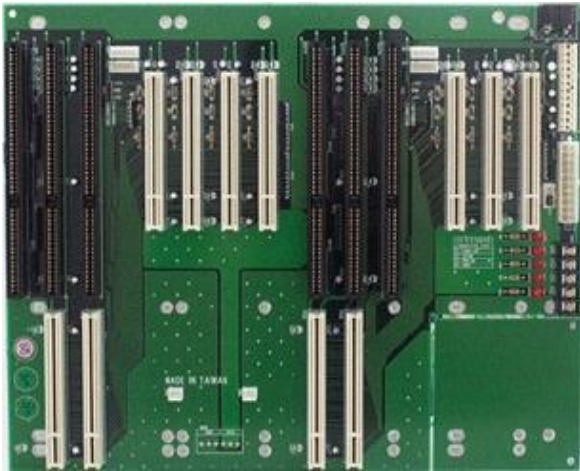
BP-1004P



Specification

- 10-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (4) ISA Slots
- (4) PCI Slots
- PICMG SLOT with 3.3V support
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

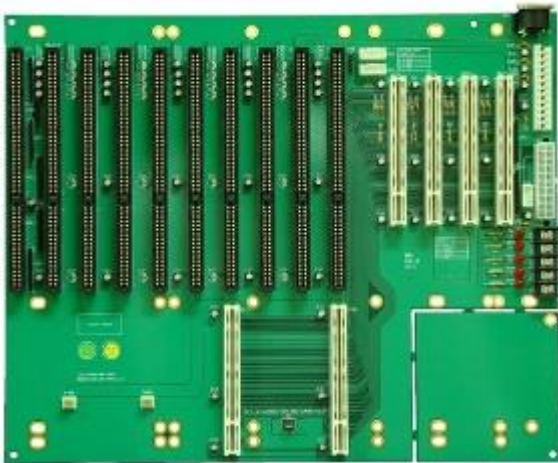
BP-1307PS



Specification

- 13-Slot Segmented PCI Passive Backplane
- (4) Full-Size PICMG CPU Slots,
- (2) ISA Slots
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

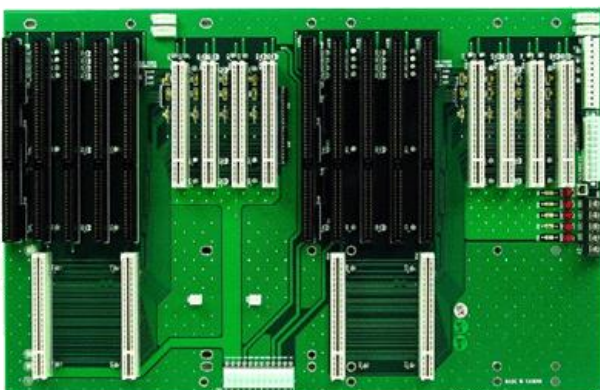
BP-1404P



Specification

- 14-Slot PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots, (8) ISA Slots, and (4) PCI Slots
- PICMG Slot with 3.3V support
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-1808PS



Specification

- 18-Slot Segmented PCI Passive Backplane
- (6) ISA slots
- (8) PCI slots
- (4) PICMG support Dual-System
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

PICMG 1.0 Passive Backplanes

BP-403PA0-1U



Specification

- 1U 3-Slot PCI Passive Backplane
- Full-Size PICMG CPU Slot
- (1) ISA Slot
- (1) PCI Slot
- 3 x Fan Connectors
- 6 x LED Indicators
- Multilayer PCB
- ATX Power Connector
- Only for RCK-103B 1U chassis

BP-0602P-2U



Specification

- 6-Slot 2U PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (2) ISA slots
- (2) PCI Slots
- Multilayer PCB
- ATX Power Connector
- Ideal Choice RCK-203B 2U Chassis

BP-0604P-2U



Specification

- 6-Slot 2U PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (4) PCI Slots
- Multilayer PCB
- ATX and AT Power Connectors
- Ideal Choice RCK-203B 2U Chassis

PICMG 1.0 Bridged Backplanes

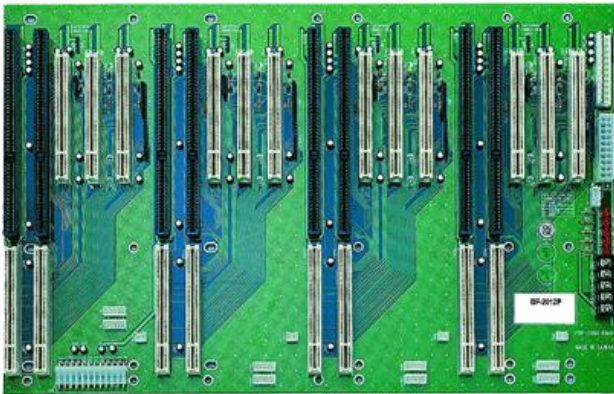
BP-1904P



Specification

- 19-Slot Passive Backplane
- (3) Full-Size PICMG CPU Slots
- (12) ISA Slots
- (4) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-2012PS



Specification

- 20-Slot Segmented PCI Passive Backplane
- (8) Full-Size PICMG CPU Slots
- (12) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-0807A

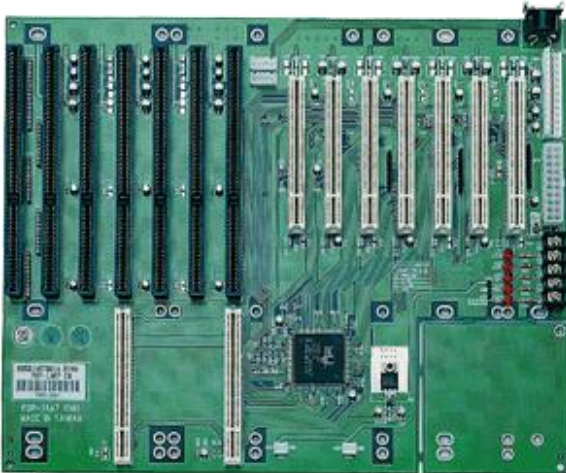


Specification

- 8-Slot Bridged PCI Passive Backplane
- Full-Size PICMG CPU Slot
- (1) ISA Slot
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

PICMG 1.0 Bridged Backplanes

BP-1407A



Specification

- 14-Slot Bridged PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (5) ISA Slots
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

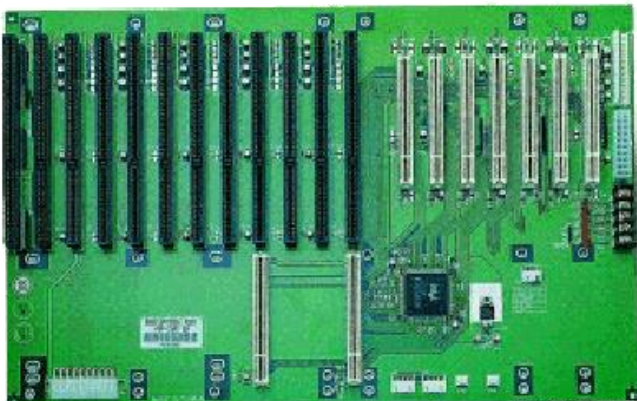
BP-1412A



Specification

- 14-Slot Bridged PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (1) ISA Slot
- (12) PCI Slots (one shared)
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BP-1907A



Specification

- 19-Slot Bridged PCI Passive Backplane
- (2) Full-Size PICMG CPU Slots
- (10) ISA Slots
- (7) PCI Slots
- Power Indicator LEDs
- On-board 5-pin DIN Keyboard Connector
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BPH-0504P



Specification

- 5-Slot PCI Passive Backplane
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

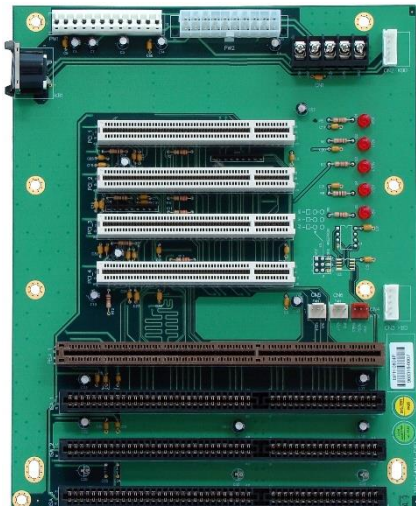
BPH-0502P



Specification

- 5-Slot PISA Passive Backplane
- CPU slot (PISA),
- (2) ISA Slots
- (2) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- ATX Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BPH-0804P



Specification

- 8-Slot PISA Passive Backplane
- CPU slot (PISA)
- (3) ISA Slots
- (4) PCI Slots
- Power Indicator LEDs
- Multilayer PCB
- ATX /AT Power Connector
- Heavy Duty Screw Terminals for High Current Power Connection

BPH-0400P



Specification

- 4-Slot ISA Passive Backplane
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

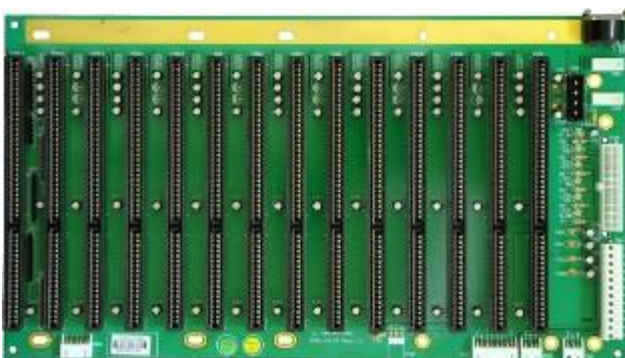
BPH-0600P



Specification

- 6-Slot ISA Passive Backplane
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

BPH-1400P



Specification

- 14-Slot ISA Passive Backplane
- Power Indicator LEDs
- Multilayer PCB
- P8/P9 Power Connectors
- ATX Power Connector

1U Power Supply



AC/DC 200W Power Supply for 1U system with PFC function and ATX output

Features

- Compact size for 1U rackmount chassis
- AC/DC 250W with ATX output
- Input Voltage Range: 110 ~ 240V
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: CB, CCC, CE, TUV, UL
- EMI Standards: FCC Class B/ VCCI Class 2

Input

- 110 ~ 240V

Efficiency

- 70% minimum, at full load

Hold Up Time

- 20ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 70% full rated load (calculated by MIL217E).

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 90% relative humidity, non-condensing at 40°C.



EMI/RFI

- FCC part 15, Subpart B, Class B computing devices.
- CISPR22 (EN55022) Class B.
- VCCI Class 2

Safety

- CB, CCC, CE, TUV, UL

Dimension

- 81.5 (W) x 150 (D) x 40.6 (H) mm

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 +12V	5VSB
Max Load	30A	20A	12A	0.5A	1A	1.5A
Min Load	3A	0A	1A	0A	0A	0A
Load Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Cross Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%

Note 1: The output of +5V and +3.3V shall not exceed 150W.

Note 2: The +12V, +5V and +3.3V total output power maximum is 234W.

Note 3: The +12 Volt output of the power supply must be capable of 15 Amps peak for 10 seconds. A +/-5% tolerance is permissible. Output voltage is measured at the load and of the out put cable.

Note 4: Noise bandwidth is from DC to 20 MHz.

Note 5: Regulation tolerance shall include temperature change, warm up drift and dynamic load

Ordering Information

PSA-1200AXP AC/DC 200W Power Supply For 1U chassis
with ATX Output with Active PFC function

AC/DC 250W Power Supply for 1U system with PFC function and ATX output

Features

- Compact size for 1U rackmount or mini-itx chassis
- AC/DC 250W with ATX output
- Input Voltage Range: 100V~264V
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: CB, CE, TUV, C-UL

Input

- 100V ~ 264V

Efficiency

- 80% minimum, at full load

Hold Up Time

- 12ms minimum, at full load

Remote On/Off

- PS-ON compatible signal

Power Good

- open collector +5VDC, TTL compatible
- Logic Level High: between 2.4VDC and +5V output while sourcing 200 uA

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power

MTBF

- Over 100,000 hours at 75% Load and 25°C ambient conditions and 115V~ or 230V~ input

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 85%



EMI/RFI

- Comply to CE EN50081-1(1992), EN55024(1998)&FCC (B)
- Comply to EN55024(1998)

Safety

- IEC950 (EN60950) standards: TUV, CB, C-UL

Dimension

- 81.5 (W) x 150 (D) x 40.5 (H) (mm)

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V	5VSB
Max Load	17A	14A	8A	14A	0.8A	2.0A
Min Load	0.5A	0A	1A	1A	0A	0A
Peak Load			10A	16A		2.5A
Regulation	+/-5%	+/-5%	+/-5%	+/-5%	+/-10%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV

1. Maximum continuous total DC output power should not exceed 250 W
2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 110 W.
3. Maximum continuous combined load on +12 V1DC and +12V2DC outputs should not exceed 216 W/18A.
4. Maximum peak total DC output power should be approximate 275 W.
5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA-F250AXP	AC/DC 250W Power Supply For 1U chassis with ATX Output with
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AC/DC 250W Power Supply For 1U with PFC function and ATX Output



Features

- Active PFC Function
- Compact size for 1U rackmount chassis
- AC/DC 250W with ATX output
- Input Voltage Range: 115 ~ 240V
- Output Voltage: 5V/3.3V/12V/-5V/-12V/5VSB
- Safety Standard: CE/FCC/UL/CB
- EMI Standards: FCC Class B/ VCCI Class 2

Input

- 115 ~ 240V

Efficiency

- 70% minimum, at full load

Hold Up Time

- 20ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 70% full rated load (calculated by MIL217E).

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 90% relative humidity, non-condensing at 40°C.

EMI/RFI

- FCC part 15, Subpart B, Class B computing devices.
- CISPR22 (EN55022) Class B.
- VCCI Class 2

Safety

- CE, FCC, UL, CB

Dimension

- 100 (W) x 190 (D) x 40.5 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 +12V	5VSB
Max Load	25A	15A	10A	0.5A	0.5A	2A
Min Load	3A	0A	1A	0A	0A	0A
Load Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Cross Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%

Note 1: The output of +5V and +3.3V shall not exceed 150W.

Note 2: The +12V, +5V and +3.3V total output power maximum is 234W.

Note 3: The +12 Volt output of the power supply must be capable of 15 Amps peak for 10 seconds. A +/-5% tolerance is permissible. Output voltage is measured at the load and of the out put cable.

Note 4: Noise bandwidth is from DC to 20 MHz.

Note 5: Regulation tolerance shall include temperature change, warm up drift and dynamic load.

Ordering Information

PA-1250AXP AC/DC 250W Power Supply For 1U chassis
with ATX Output and Active PFC Function

AC/DC 300W Switching Power Supply with PFC Function and ATX Output

Features

- Active PFC Function
- Compact size for 1U rackmount chassis
- AC/DC 300W with ATX output
- Input Voltage Range: 115 ~ 240V
- Output Voltage: 5V/3.3V/12V/-5V/-12V/5VSB
- Safety Standard: CE/FCC
- EMI Standards: FCC Class B/ VCCI Class 2

Input

- 115 ~ 240V

Efficiency

- 70% minimum, at full load

Hold Up Time

- 20ms minimum, at full load

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40x40x20 mm)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 70% full rated load (calculated by MIL217E).

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 90% relative humidity, non-condensing at 40°C.



EMI/RFI

- FCC part 15, Subpart B, Class B computing devices.
- CISPR22 (EN55022) Class B.

Safety

- CE, FCC

Dimension

- 100 (W) x 215 (D) x 40.5 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 +12V	5VSB
Max Load	30A	20A	12A	0.5A	1A	1.5A
Min Load	3A	0A	1A	0A	0A	0A
Load Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Cross Regulation	+/-5%	+5/-3%	+/-5%	+/-10%	+/-10%	+/-5 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%
Noise	+/-1%	+/-1%	+/-1%	+/-2%	+/-2%	+/-1%

Note 1: The output of +5V and +3.3V shall not exceed 150W.

Note 2: The +12V, +5V and +3.3V total output power maximum is 278W.

Note 3: The +12 Volt output of the power supply must be capable of 16 Amps peak for 10 seconds. A +/-5% tolerance is permissible. Output voltage is measured at the load and of the out put cable.

Note 4: Noise bandwidth is from DC to 20 MHz.

Note 5: Regulation tolerance shall include temperature change, warm up drift and dynamic load

Ordering Information

PA-1300AXP AC/DC 300W Power Supply For 1U chassis
with ATX Output with Active PFC function

460W 1U AC/DC Power Supply with high efficiency, active PFC function and ATX output

Features

- High efficiency $\geq 86\%$
- Compact size for 1U Rackmount or Mini-ITX chassis
- 460W AC/DC with ATX output
- Input Voltage Range: 100V~240V, $\pm 10\%$
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: UL cUL, TUV

Input

- 100V ~ 240V, $\pm 10\%$

Efficiency

- $\geq 86\%$ at 115VAC, at full load

Hold Up Time

- 16ms minimum, at max load & normal input

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 40x40mm DC fan

Output Protection

- Short circuit, Overload & Over voltage power

MTBF

- Over 100,000 hours at 75% Loading and 25°C ambient temperature

Environment

- Operating Temperature: 0 to 45 °C.
- Humidity: 5% ~ 90% non condensing



EMI/RFI

- FCC Class A, CISPR22 Class A
- Comply to EN61000-3-2

Safety

- UL, cUL, TUV

Dimension

- 100(W) x 200(D) x 40.5(H) (mm)

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5VSB
Output Current (max)	25A	25A	34A	0.8A	3.5A
Output Current (min)	0.5A	0.5A	2A	0A	0.1A
Ripple/Noise Max	60mV	60mV	120mV	120mV	60mV
Line Regulation	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
Load Regulation	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$	$\pm 5\%$

1. Noise Test – Noise bandwidth is from DC to 20MHz.

2. Ripple frequencies greater than 1MHz shall be attenuated by the measurement System.

3. Add 0.1uF/10uF capacitor at output connector terminals for ripple and noise measurement.

4. The combined total power from 5V & 3.3V shall not exceed 160W.

5. Ripple/Noise max measured peak to peak.

Ordering Information

PI-1460P	460W AC/DC PSU for 1U chassis with active PFC function and ATX output
PI-1400P	400W AC/DC PSU for 1U chassis with active PFC function and ATX output*
PI-1520P	520W AC/DC PSU for 1U chassis with active PFC function and ATX output*

* Separate datasheets available for 400W and 520W output PSU

Mini Redundant Power Supply



AC/DC 400W Hot Swap Redundant Power Supply with PFC Function and ATX Output

Features

- Short circuit, Overload, Over voltage protection
- LED indicator for Power System Fault Signal
- Safety standard to meet: UL/TUV/CE / CCC/CB
- EMI Standard: FCC Part 15, Subpart B, Class B / CISPR 22 (EN 55022) Class B

Input

- 100-240Vac 47~63 Hz

Efficiency

- $\geq 73\%$ at full load

Hold Up Time

- 16msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 40 x 40 x 10 mm fan (magnetic floating bearing)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 5% ~ 90% relative humidity & non-condensing



EMI/RFI

- FCC Part 15 .Class B.
- CISPR 22 (EN 55022) Class B

Safety

- TUV, CUL, UL, CCC, CE

Dimension

- 150 (W) x 200 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5Vsb
Max Load	25A	25A	28A	0.8A	2A
Min Load	3A	0.3A	2A	0.1A	0.1A
DC Max Power	300W				
Load Regulation	+/-5%	+/-5%	+/-5%	+/-10%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV

Note 1: The combined total power +5V and +3.3V shall not exceed 150 W. 2. Add 0.1uF/10uF capacitors at output terminals for ripple and noise measurements.

Ordering Information

SS-400R8P

AC/DC 400W ATX Hot Swap
Redundant Power Supply

R4B-500G1V2

AC/DC 500W Hot Swap Redundant Power Supply with PFC Function and ATX Output

Features

- Short circuit, Overload, Over voltage protection
- LED indicator for Power System Fault Signal
- Safety standard to meet: UL/TUV/CCC/IEC
- EMI Standard: FCC Part 15, Subpart B, Class A / CISPR 22 (EN 55022) Class B

Input

- 100-240Vac 47~63 Hz

Efficiency

- Minimum 80% at full load and 115V/60Hz input

Hold Up Time

- 16ms minimum

Remote On/Off

- PS-ON compatible signal

Power Good

- TTL signal compatible signal

Cooling

- 40 x 40 x 10 mm fan (magnetic floating)

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 0% ~ 95% relative humidity & non-condensing



EMI/RFI

- FCC Part 15, Subpart B, Class A
- CISPR 22 (EN 55022) Class B

Safety

- TUV, CUL, UL, CCC

Dimension

- 150 (W) x 200 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	+5Vsb
Max Load	25A	25A	41A	0.8A	3.5A
Min Load	1A	1A	1A	0A	0.5A
Load Regulation	+/-5%	+/-5%	+/-5%	+/-10%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV
Noise Reg. mV	60 mV	60 mV	120 mV	120 mV	50 mV

Note 1: The combined total power +5V and +3.3V shall not exceed 170 W. 2. Add 0.1uF/10uF capacitors at output terminals for ripple and noise measurement.

Ordering Information

R4B-500G1V2	AC/DC 500W ATX Hot Swap Redundant Power Supply
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AC/DC 1350W Hot Swap 3+1 Redundant Power Supply with PFC Function and ATX Output

Features

- Short circuit, overload, over voltage protection
- Power System Fault Signal and Audible Alarm
- Input Voltage 100~240V AC Full Range
- Safety Standard to meet: UL/TUV/CSA
- EMI standards: FCC Class A / CISPR22 Class A

Input

- 100~240V (Auto-sensing)

Efficiency

- 65% minimum, at 115V full load

Hold Up Time

- 16ms minimum in regular limitation at 90VAC

Remote On/Off

- PS-ON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 40mm Ball bearing fan (40 x 40 x10 mm)

Output Protection

- Short circuit, overload & over voltage power protection. Power Fault Warning with front panel status LED and audible alarm

MTBF

- 233,535 hours at 25°C

Environment

- Operating Temperature: 0 to 40 °C.
- Operating Humidity: 10% ~ 90% relative humidity & non-condensing



EMI/RFI

- FCC Class A
- CISPR22 (EN55022) Class A

Safety

- UL, TUV, CSA

Dimension

- 426 (W) x 340 (D) x 42 (H) mm

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V4 -5V	V5 -12V	5VSB
Max Load	84.5A	67.5A	90A	1.2A	1.2A	3.5A
Min Load	6A	3.5A	6A	0.2A	0.2A	0.4A
Regulation	+/-5%	+/-5%	+/-6%	+5/-10%	+5/-10%	+5/-6%
Ripple(mV)	70	70	120	120	120	70

Note 1: Power module total current of +5V and +3.3V can not exceed 40A

Note 2: Power module total output can not exceed 500W

Note 3: Total power output 3+1=1350W

Ordering Information

M1W4- 6D50P	AC/DC 1350W ATX Hot Swap 3+1 Redundant Power Supply
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AC/DC 120W 1U Redundant Power Supply with Active PFC and ATX Output

Features

- Short circuit, Overload, Over voltage protection
- LEC indicator for Power System Fault Signal
- Safety standard to meet: UL/TUV/CCC/CUL
- EMI Standard: FCC Part 15 Class B / CISPR 22 (EN 55022) Class B

Input

- 90~127Vac (115V), 180-240Vac (220V) 47~63

Efficiency

- 86% (Each power unit)

Hold Up Time

- 16ms minimum

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible signal

Cooling

- 40 x 40 x 10 mm active fan

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 273,688 hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 80% relative humidity & non-condensing



EMI/RFI

- FCC Part 15, Subpart B, Class A
- CISPR 22 (EN 55022) Class B

Safety

- TUV, CUL, UL, CCC

Dimension

- 215 (W) x 106 (D) x 41.5 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	-12V	+5VSB
Max Load	10A	10A	10A	0.3A	3A
Min Load	0A	0A	2A	0A	0.1A
Max Power	80W				
	120W				
Load Regulation	+/-5%	+/-5%	+/-5%	+/-5%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	50 mV

Note 1: Maximum continuous total DC output power should not exceed 120 W. 2. Maximum continuous combined load on +12 VDC 10A.

Ordering Information

R1T2-5120VOHP	AC/DC 120W ATX 1U Redundant PSU
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PS/2 Power Supply



AC/DC 400W PS/2 Type Power Supply with PFC Function and ATX Output

Features

- 400W Active PFC, Meet Intel ATX 12V v2.3
- High efficiency and reliability
- Low ripple and noise
- Complies with EN61204-3:2000, & FCC Part 15 & Part 2 (CISPR 22 CLASS B)

Input

- 90~264Vac, 47~63 Hz

Efficiency

- 82% ~ 85%
- 80 PLUS Bronze Compliant

Hold Up Time

- 10msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 80 x 80 x 25 mm active fan, 34 CFM, <35dB

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 80% relative humidity



EMI/RFI

- FCC Part 15 & Part 2 (CISPR 22 CLASS B)
- EN61204-3:2000
- GB4943-2001

Safety

- TUV, CUL, CB

Dimension

- 150 (W) x 140 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V
Max Load	20A	20A	17A	17A	0.8A
Min Load	0.3A	0.5A	1A	1A	0A
Max Power	130W				
	27A/ 324W				
Peak Load			20A	20A	
Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-2%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV

Note 1: Maximum continuous total DC output power should not exceed 400 W. 2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 130 W. 3. Maximum continuous combined load on +12V1DC&+12V2DC outputs should not exceed 30A/360W. 4. Maximum peak total DC output power should not exceed 440 W. 5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA- AC/DC 400W ATX PS/2 Type PSU
400AXP

AC/DC 600W PS/2 Type Power Supply with PFC Function and ATX Output

Features

- 600W Active PFC, Meet Intel ATX 12V v2.3
- High efficiency and reliability
- Low ripple and noise
- Complies with EN61204-3:2000, & FCC Part 15 & Part 2 (CISPR 22 CLASS B)

Input

- 90~264Vac, 47~63 Hz

Efficiency

- 82% ~ 85%
- 80 PLUS Bronze Compliant

Hold Up Time

- 10msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 80 x 80 x 25 mm active fan, 41.5 CFM, <38.2dB

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C

Environment

- Operating Temperature: 0 to 50 °C.
- Operating Humidity: 20% ~ 80% relative humidity



EMI/RFI

- FCC Part 15 & Part 2 (CISPR 22 CLASS B)
- EN61204-3:2000,
- GB9254-1998, GB17625.1-2003 standards, C-TICK

Safety

- TUV, CUL, CB, CCC

Dimension

- 150 (W) x 140 (D) x 86 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V	5VSB
Max Load	24A	24A	24A	24A	0.8A	2.5A
Min Load	0.2A	0.1A	0.1A	0.5A	0A	0A
Max Power	130W					
	46A/ 552W					
Peak Load			27A	27A		3.0A
Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-2%	+/-1%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	120 mV	50 mV

Note 1: Maximum continuous total DC output power should not exceed 600 W. 2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 130 W. 3. Maximum continuous combined load on +12V1DC&+12V2DC outputs should not exceed 46A/552W. 4. Maximum peak total DC output power should not exceed 660 W. 5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA-600AXP AC/DC 600W ATX PS/2 Type PSU

Micro-ATX AC/DC 300W Switching Power Supply with ATX Output



Features

- Micro-ATX AC/DC 300W Switching Power Supply
- Active PFC Function, PFC>0.95 full load.
- Smart Silent Fan Control, Noise< 35dBA
- Double Ball Bearing Fan, CFM>30
- Input Voltage Range: 110~240VAC Full Range
- Reset After Shut Down within 20ms

Input

- 115V ~ 230V, maximum 264V

Efficiency

- 81.3% @60W; 83.8% @149W; 80.8% @296W output
- 80 PLUS Compliant

Hold Up Time

- 16ms min. at 80% of full load, at 230AC input

Remote On/Off

- PSON compatible signal

Power Good

- Turn-on delay 100 ~ 500ms

Cooling

- 80 x 80 x 25 mm active fan

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 100K hours at 25°C, 75% load in 115V ~ 230V

Environment

- Operating Humidity: 20% ~ 85% relative humidity

EMI/RFI

- CE EN50081-1, EN55024 & FCC (B) regulation, C Tick
- EN55024
- EN61000-3-2
- BSMI Class B

Safety

- IEC950 (EN60950); TUV, CB, C-UL, S

Dimension

- 100 (W) x 125 (D) x 76.8 (H) mm

Output Table

Output Voltage	+5V	+3.3V	V1 +12V	V2 +12V	-12V	5VSB
Max Load	20A	20A	8A	14.5A	0.8A	2A
Min Load	0.3A	0.5A	1A	1A	0A	0A
Max Power	125W		270W			
Peak Load			10A			2.5A
Regulation	+/-5%	+/-5%	+/-5%	+/-5%	+/-10%	+/-5%
Ripple Reg. mV	50 mV	50 mV	120 mV	120 mV	150 mV	50 mV
Noise Reg. mV	50 mV	50 mV	120 mV	120 mV	150 mV	50 mV

Note 1: Maximum continuous total DC output power should not exceed 300W. 2. Maximum continuous combined load on +3.3 VDC and +5 VDC outputs should not exceed 125W. 3. Maximum continuous combined load on +12V1DC&+12V2DC outputs should not exceed 270W. 4. Maximum peak total DC output power should not exceed 330W. 5. Peak power and current loading should be supported for a minimum of 1 second

Ordering Information

PNA- AC/DC 300W ATX PSU

400W MicroATX Power Supply with active PFC and ATX output



Features

- 400W MicroATX AC/DC PSU with ATX output
- Short circuit, Over-Voltage and Over-Current protection
- Safety standard to meet: CB/UL/TUV
- EMI Standard: FCC Part 15, Subpart B, Class B / EN55022, AS/NZS

Input

- 90~135Vac(115V), 180-265Vac(230V), 47~63 Hz

Efficiency

- 85%
- 80 PLUS Bronze Certified

Hold Up Time

- 24msec (minimum)

Remote On/Off

- PSON compatible signal

Power Good

- TTL compatible signal

Cooling

- 80mm sleeve-bearing fan with Thermal sensor

Output Protection

- Short circuit, Over-Voltage and Over-Current protection

MTBF

- >100,000 hours at ambient temperature 25°C

Environment

- Operating Temperature: 10 to 50 °C.
- Operating/Storage Humidity: 5%~95%RH relative humidity & non-condensing

EMI/RFI

- FCC Part 15, Subpart B, Class B. CISPR 22: 1997, Class B
- EN55022: 2006+A1: 2007, Class B.

Safety

- CB: IEC 60950~1:2005 (2nd edition) / EN 60950~1
- UL 60951-1, 2nd Edition, 2007-03-27
- TUV: EN 60950-1:2006+All

Dimension

- 125 (W) x 100 (D) x 63.5 (H) mm

Output Table

Output	+5V	+3.3V	+12V1	+12V2	-12V	+5VSB
Min Load	0.2A	0.1A	0.1A	0.5A	0A	0A
Normal Load	11A	10.5A	9A	9A	0.25A	1.25A
Max Load	22A	21A	17A	16A	0.5A	2.5A
Peak Load				19A		3.5A
Line Reg.	±1%	±1%	±1%	±1%	±1%	±1%
Load Reg.	±5%	±5%	±5%	±5%	±10%	±5%
Ripple&Noise	70mV	70mV	140mV	140mV	140mV	70mV

1. +3.3V & 5V total output not exceed 120W
2. Total output continuous shall not exceed 400W
3. +12V2 Peak current is 19A (less than 10ms), minimum voltage during peak is >10.8Vdc
4. 5Vsb Peak current is 3.5A (less than 500ms), minimum voltage during

Ordering Information

FPA-	400W MicroATX PSU with active
M400AXP	PFC and

Micro-ATX DC 300W Switching Power Supply with ATX Output

Features

- 300W DC/DC PS2 ATX power supply with P4 connector
- Input Voltage Range: +19VDC ~ 32VDC
- Suitable for vehicle application
- Fully isolated primary and secondary ground.
- MTBF>116,000hr. MIL-217F at 40°C full load

Input

- +19VDC ~ 32VDC

Efficiency

- 65% ~ 76.82%

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 80mm Fan

Output Protection

- Short circuit, overload & over voltage power

MTBF

- MTBF>116,000hr. MIL-217F at 40°C full load

Environment

- Operating Temperature: -20°C~70°C(derating from 30°C)
- Operating Humidity: 5% ~ 95%RH, non-condensing



EMI/RFI

- FCC part 15, Subpart B, Class B computing devices
- CISPR22 (EN55022) Class B

Safety

- UL60950-1 and EN60950-1 approved
- TUV, EN 60950-1

Dimension

- 150 (W) x 140 (D) x 86 (H) (mm)

Output Table

Output Voltage	+5V	+3.3V	+12V	-12V	-5V	5VSB
Max Load	30A	15A	15A	2A	2A	1.2A
Min Load	2A	0A	0.1A	0A	0A	0A
Max Power	150W					
Peak Load						
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple Reg. mV	50	50	100	100	50	100
Noise Reg. mV	50	50	100	100	50	100

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 150W.

Note 2: The total DC continuous power shall be kept within 300W ambient temperature of 30°C below, and input voltage at +24V ~ +32V. When input voltage is +19V ~ +23V the total DC continuous power shall be kept within 250W.

Ordering Information

PGA- DC 24V 300W ATX PS/2 Type
300AX- Power Supply

Open Frame Power Supply



AC/DC 80W Open Frame Power Supply

Features

- Compact size with ATX output
- Supports 60W convection cooling
- Input Voltage Range: 90 ~ 264V
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: UL, CB, TUV
- EMI Standards: FCC Class B/ CISPR22 Class B

Input

- 90 ~264V

Efficiency

- 70% minimum at full load, 115Vac input

Hold Up Time

- 20ms minimum at full load, 230Vac input

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 80W with 8.6CFM air-cooling, 60W for convection cooling

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 130K hours at 25°C, 70% full rated load (calculated by MIL217F).

Environment

- Operating Temperature: 10°C to 50°C at full loading
- Operating Humidity: 5% ~ 95%RH, non-condensing



EMI/RFI

- FCC part 15, Subpart B, Class B computing devices
- CISPR22 (EN55022) Class B

Safety

- UL, UL 60950, 3rd edition
- CB, IEC 60950-1, TUV, EN 60950-1: 2001

Dimension

- 81 (W) x 128 (D) x 40 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V5 -12V	5VSB
Max Load	8A	6A	3A	0.5A	0.75A
Min Load	0.5A	0A	0A	0A	0A
Load Regulation	+/-2%	+/-4%	+/-4%	+/-5%	+/-4 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	50 mV	50 mV	120 mV	120 mV	120 mV
Noise	50 mV	50 mV	120 mV	120 mV	120 mV

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 40W.

Note 2: Measured by a 20MHz bandwidth limited oscilloscope and the each output is connected with a 10μF Electrolytic Capacitor and a 0.1μF Ceramic Capacitor.

Note3: The +5V output is set between 5.08V to 5.13V by variable resistor and all output at 60% rated load and the other outputs are checked to be within the accuracy range.

Note4: Total maximum load cannot exceed 80W with 8.6 CFM forced air-cooling and 60W convection cooling.

Ordering Information

PGA-	AC/DC 80W Open Frame ATX
U080AX	Power Supply

AC/DC 120W Open Frame Power Supply

Features

- Compact size with ATX output
- Supports fanless for 85W
- Input Voltage Range: 90 ~ 260V
- Output Voltage: 5V / 3.3V / 12V / -12V / 5VSB
- Safety Standard: UL, CB, TUV, IEC 60950-1, EN 60950-1
- EMI Standards: FCC Class B / CISPR22 Class B

Input

- 90 ~ 260V

Efficiency

- 70% minimum at full load

Hold Up Time

- 16ms minimum at full load, 115Vac input

Remote On/Off

- PSON compatible signal

Power Good

- TTL signal compatible power good signal. Turn-on delay 100 ~ 500ms

Cooling

- 120W with 8.6CFM forced air-cooling, 85W for fanless

Output Protection

- Short circuit, overload & over voltage power protection

MTBF

- 130K hours at 25°C, 70% full rated load (calculated by MIL217F).

Environment

- Operating Temperature: 0°C to 50°C at full loading



EMI/RFI

- FCC Class B
- CISPR22 (EN55022) Class B

Safety

- UL, CB, TUV,
- IEC 60950-1, EN 60950-1

Dimension

- 83.8 (W) x 152.4 (D) x 40 (H) (mm)

Output Table

Output Voltage	V1 +5V	V2 +3.3V	V3 +12V	V5 -12V	5VSB
Max Load	14A	6A	3A	1A	0.75A
Min Load	1A	0A	0A	0A	0A
Load Regulation	+/-2%	+/-5%	+7/-3%	+8/-3%	+/-4 %
Line Regulation	+/-1%	+/-1%	+/-1%	+/-1%	+/-1%
Ripple	50 mV	50 mV	120 mV	200 mV	120 mV
Noise	50 mV	50 mV	120 mV	200 mV	120 mV

Note 1: The maximum total combined output power on the +3.3V and +5V rail is 70W.

Note 2: Measured by a 15MHz bandwidth limited oscilloscope and the each output is connected with a 0.47μF Capacitors

Note3: The +5V output is set between 5.08V to 5.13V by variable resistor and all output at 60% rated load and the other outputs are checked to be within the accuracy range.

Note4: Total maximum load cannot exceed 120W with 8.6 CFM forced air-cooling.

Ordering Information

PGA-	AC/DC 120W Open Frame ATX
U120AX	Power Supply

Accessories



1U height, ruggedized Keyboard Drawer with Touchpad for 19" rack cabinet application, EIA-310C industrial standard

Industrial grade steel housing

106-key Keyboard

Easy to operate Touchpad

1U Rackmountable Keyboard drawer with Handle



Specification

Construction

- Standard Rackmount 1U 19" Heavy Duty Steel

Color

- Beige or Black

Keyboard & Mouse

- 106-key Multi-language keyboard (PS/2) and touchpad. For USB Keyboard a PS/2 to USB keyboard adapter is required. For AT keyboard a PS/2 to AT keyboard is required

Drawer Design

- Handpad for comfortable typing

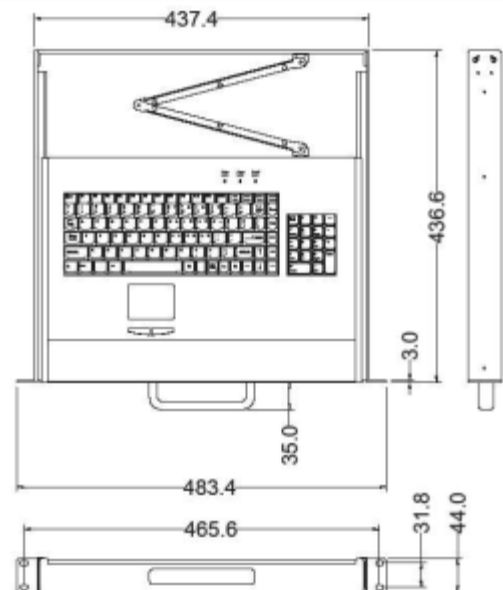
Dimension

- 437.4 (W) x 436.6 (D) x 44 (H) mm

Gross Weight

- 8Kgs

Mechanical Drawing



Ordering Information

KD-100P-BLK	1U Keyboard Drawer with Touchpad and PS/2 keyboard , black color
KD-100P-BGE	1U Keyboard Drawer with Touchpad and PS/2 keyboard , beige color
KD-100P-USB-BLK	1U Keyboard Drawer with USB Touchpad and USB keyboard , black color
KD-100P-USB-BGE	1U Keyboard Drawer with USB Touchpad and USB keyboard , beige color

1U height, ruggedized Keyboard Drawer with Trackball for 19" rack cabinet application, EIA-310C industrial standard

Industrial grade steel housing

84-key Keyboard

Easy to operate Trackball



Specification

Construction

- Standard Rackmount 1U 19" Heavy Duty Steel

Color

- Beige or Black

Keyboard & Mouse

- IBM PS/2 compatible operation system with PS/2 keyboard and Mouse ports

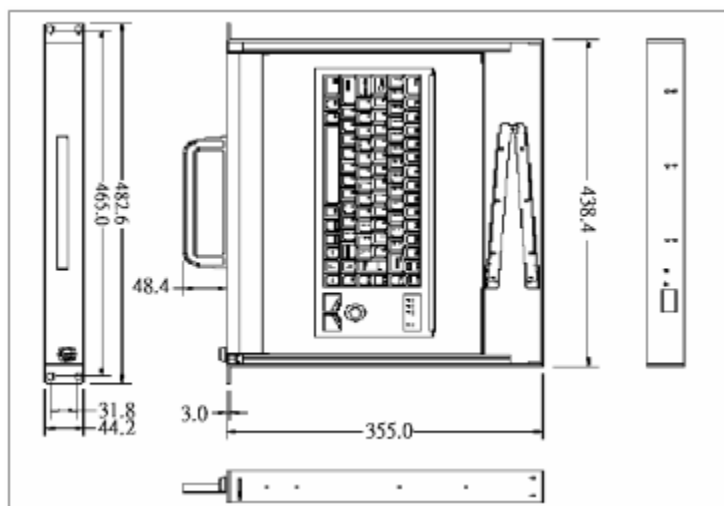
Dimension

- 438.4 (W) x 355 (D) x 44 (H) mm

Gross Weight

- 7Kgs

Mechanical Drawing



Ordering Information

KD-G84B-BLK	1U Keyboard drawer with Cherry Trackball, keys, Black color
KD-G84B-BGE	1U Keyboard drawer with Cherry Trackball, keys, Beige color

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